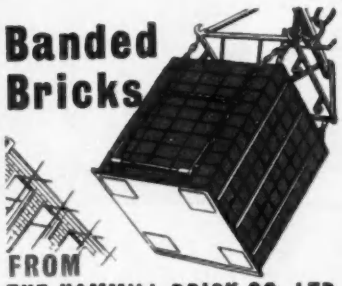
A NEWSPAPER FOR THE ARCHITECT & CONSTRUCTOR

THE BUILDER

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

No. 6063 117th Year FRIDAY, JUNE 12, 1959 ONE SHILLING AND SIXPENCE

Banded Bricks



FROM
THE HAMMILL BRICK CO. LTD.
EASTRY · SANDWICH · KENT
Telephone: EASTRY 231/2

WOTTONS
CROYDON
LTD
Metal Windows
Patent Glazing
Lantern Lights
THOrnton Heath
6242-3-4

*SMOKY FIRES
CURED
UNDER WRITTEN
MONEY BACK
GUARANTEE

Made in special non-corrosive hardened Aluminium * Hold the confidence of your customers and gain their gratitude by fitting the
COLT COWL
Write for full details to Dept. M125/198
W. H. COLT (LONDON) LTD., SURBITON, SURREY

Youngman lightweight staging
spans its full length up to 24 ft.
W. C. YOUNGMAN LIMITED · Wandsworth Rd., London S.W.8 Telephone: MACaulay 2233

The BOSTWICK
HIGH GRADE METALWORK
GATE and SHUTTER CO. LTD
HYTHE ROAD, WILLESDEN, N.W.10

DECORATIVE PAINTING CONTRACTORS LTD.
LONDON'S LEADING DECORATORS
FOR COMPETITIVE PAINTING & DECORATING
HOUNSLOW 3212-3-4

PENROSE
LIFTS, Ltd.
106, WESTON STREET,
LONDON, S.E.1

BIRMINGHAM
CONSTITUTION HILL
TEL: CENTRAL 8231/5
EDMONDS SHOPFITTERS
LONDON
78 ST. JOHN ST., E.C.1
Tel: Clerkenwell 8784/5

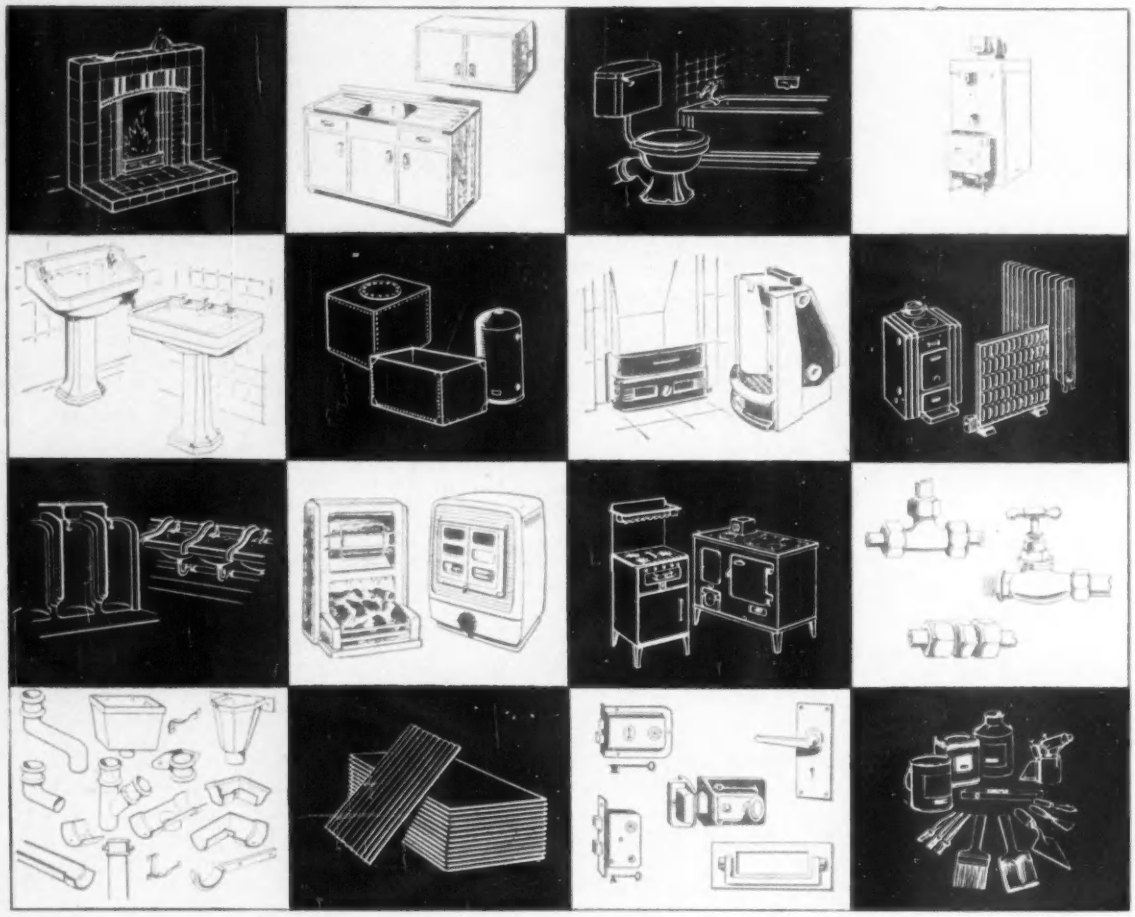
Alufloor
Patent No. 749791
PREFABRICATED WOOD FLOORING
FACTORY SANDED
DIE-SQUARED
PRECISION MOUNTED
NEW · LUXURIOUS · INEXPENSIVE
FAST LAYING · DURABLE
Ideal for Offices, Stores, Schools, Hospitals, Homes
Write for fully informative brochure
CALDERS LTD Plough Way, Rotherhithe, London, S.E.16 Tel: BER. 3535

SETCRETE
WATERPROOFERS
MORTAR PLASTICISERS
SILICONE WATER REPELLENT
QUICKSET WATER SEALERS LIMITED
20 Albert Embankment,
LONDON, S.E.11. RELiance 6731-2-3
DONCASTER . BIRMINGHAM . BRISTOL
BETONAC
METALLIC AGGREGATE
INDUSTRIAL FLOORS
DEFY ABRASION

PLUMBING & GLAZING CONTRACTORS
TEL: MAIDA VALE 4816
NEWMAN & WATSON LTD
70, SALUSBURY RD.,
LONDON, N.W.6
Branches
BIRMINGHAM SHEFFIELD
MIDDLESBROUGH CARLISLE
IPSWICH SCARBOROUGH
HEATING & VENTILATING ENGINEERS

ASPHALT
FELT ROOFING
ASSOCIATED ASPHALT CO. LTD.
"WEARPROOF"
INDUSTRIAL FLOORING
10, SHRUBBERY ROAD, STREATHAM, S.W.16
TELE: STR 7875

HARDWARE BUILDING MATERIALS



Our stock in trade is *Quick Delivery*

Stockholders & Distributors of

Sanitaryware • heating stoves • radiators • boilers • ranges • cookers • fireplaces • castings • steelwork • fencing • gutters and pipes • bolts, nails and screws • wallboards • architectural and builders' ironmongery • asbestos goods • glass • decorators' materials • tanks • cylinders and cisterns • plumbers' brass foundry • lead • tubes and fittings • wall and floor tiles • doors and gates • engineers' and contractors' tools

Standard
TRADE WATFORD MARK
ESTABLISHED 1870

CREDIT SALES FACILITIES

Sanitaryware, Kitchen Equipment, Fireplaces, Boilers and Heating Appliances may now be secured under our

CREDIT SALE PLAN
in which the
COST OF INSTALLATION may be INCLUDED

This special facility ensures prompt payment of the Builder's or Plumber's Account consequent upon completion of installations undertaken for Private Householders.

Full particulars upon application.

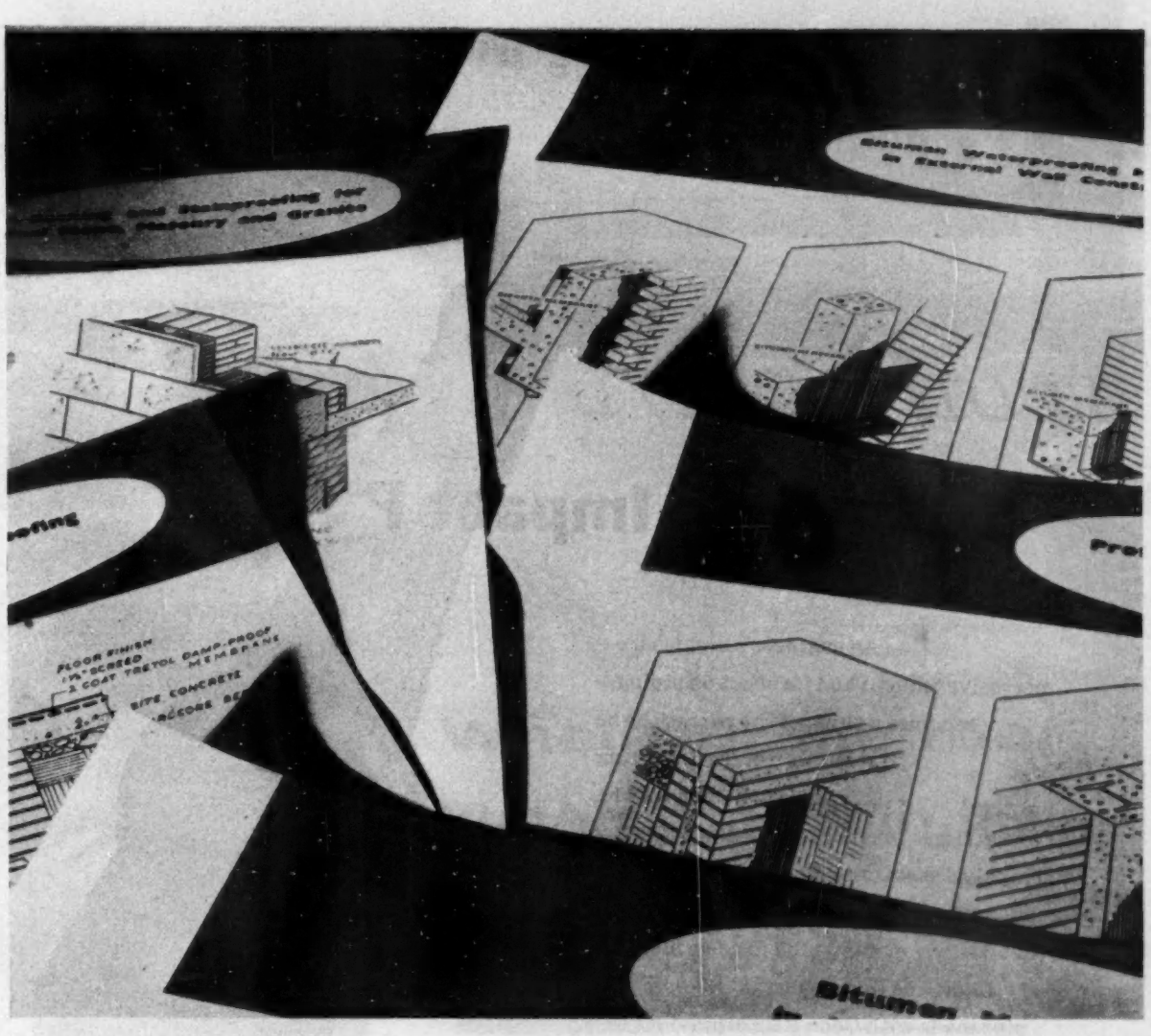
STANDARD RANGE & FOUNDRY CO. LTD.

WATFORD, HERTS. Telephone: WATFORD 26484 (12 LINES). Telegrams: STANDARD, WATFORD

London Sales Office: MANFIELD HOUSE, SOUTHAMPTON ST., 376 STRAND, LONDON, W.C.2. *Tel.: COVent Garden 1422-3*

Telegrams: ESAREFCO, RAND, LONDON

Are these sheets in your files?



These five specification sheets deal with various aspects of waterproofing structures. They cover the use of cold-applied bitumen solutions as both horizontal and vertical damp-proof membranes. One sheet is devoted entirely to the correct application of internal waterproof renderings as an alternative to tanking. The techniques illustrated have been utilised for a number of years in many important building projects throughout the country. If these sheets are not already in your files, we shall be glad to send you a set. Filing will be no problem, since they are designed to the British Standards size for technical literature.

TRETOL *Cold-Applied Bitumen Membrane Systems*

TRETOL LTD. Makers of Paints & Building Products, THE HYDE, LONDON, N.W.9. Phone: Colindale 7223

A

GEON RA 170

the High Impact PVC

An engineer's nightmare—
corrosive effluent and its effect on piping—
becomes a thing of the past with the
installation of Hipact piping
made with Geon RA 170.
Fifteen times tougher than ordinary PVC—
and highly resistant to mechanical damage—
Geon RA 170 remains unaffected by corrosives
that destroy metal piping in a few months.
Light and easy to install, high impact
pipe made with Geon RA 170 provides the
long term answer to a gnawing problem . . .
stands the test of time in every
application involving risk of corrosion
or mechanical damage.

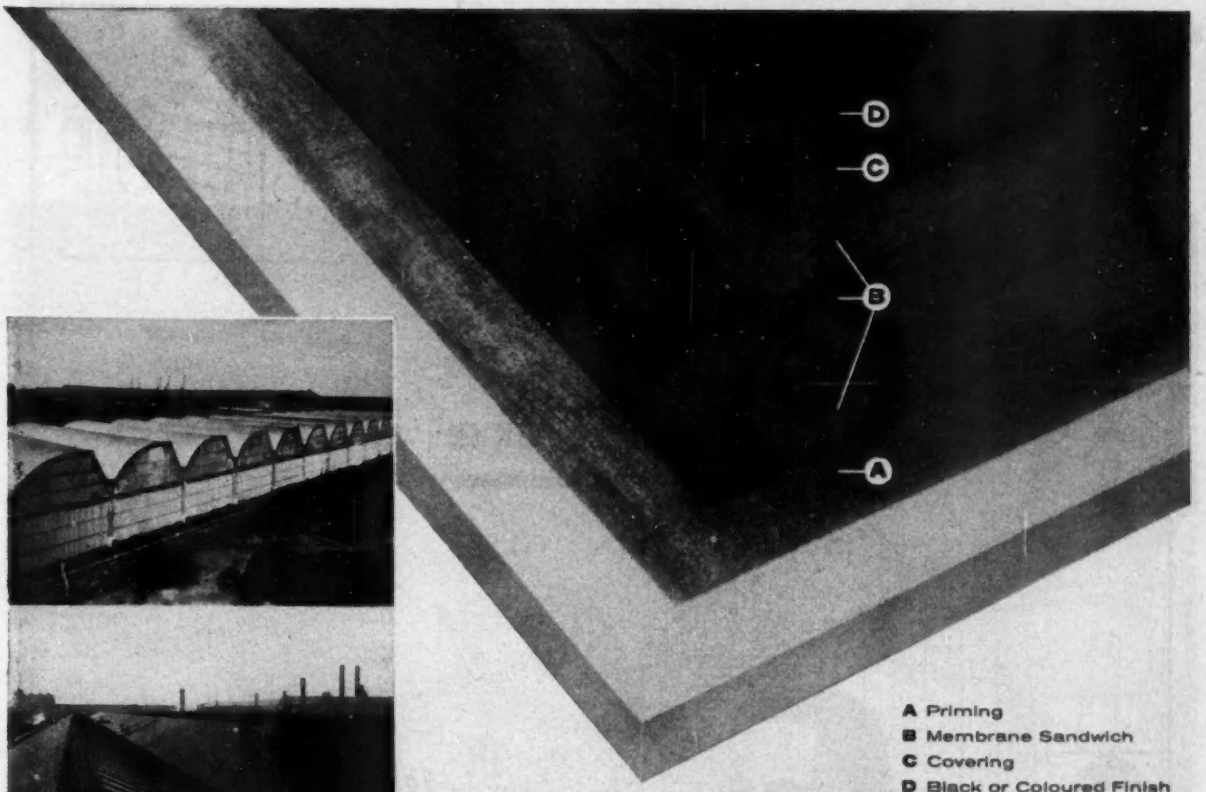
Please write for booklet No. 166

Photograph shows an effluent pipe installed in the South Wales industrial area.

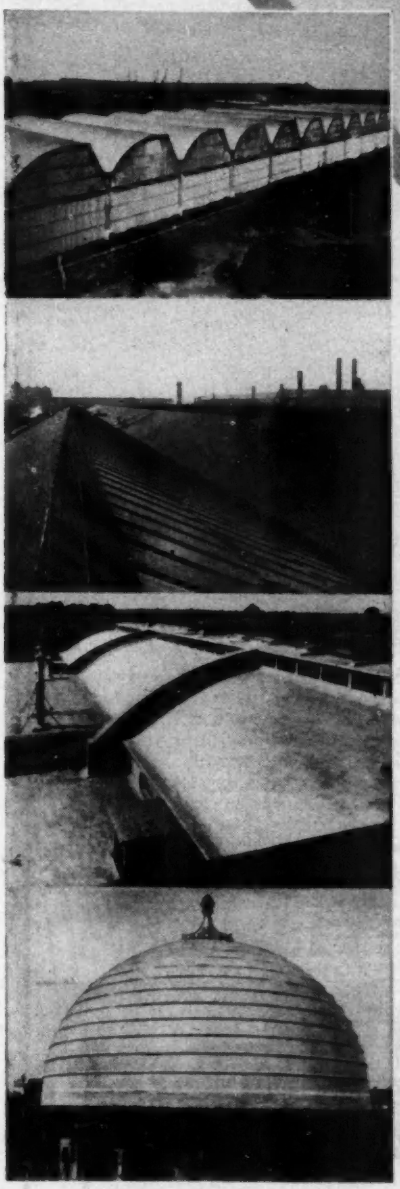
Geon is a reg'd trade mark.

British Geon Limited

Geon SALES AND TECHNICAL SERVICE DEVONSHIRE HOUSE PICCADILLY LONDON W1 HYDE PARK 7321



A Priming
B Membrane Sandwich
C Covering
D Black or Coloured Finish



Whatever the roof waterproof with the

EVODE

BUILT UP ROOFING SYSTEM

* Any roof can be treated * Permanent waterproofing for large or small roofs * Applied cold without preliminary treatment * Used and proved for 25 years * Foreman demonstrators are available to assist your own workpeople, or, if you prefer, our contract department can undertake the work for you.

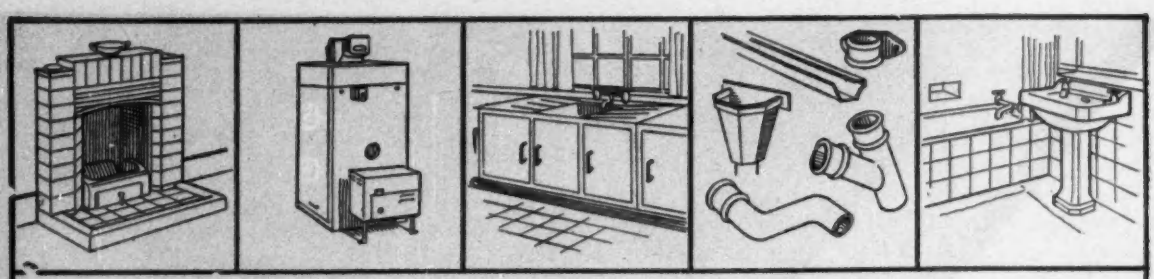
On the left we show 4 examples of roofs which have been waterproofed with the Evode System. These illustrate the variety of jobs which are handled successfully by our contracts department.

A PRODUCT OF EVODE OF STAFFORD

ROOF WATERPROOFING • CONCRETE ADMIXTURES AND HARDENERS • PROTECTIVE PAINTS AND BITUMINOUS COATINGS • GAP AND JOINT SEALING MASTICS AND GUNS • INDUSTRIAL ADHESIVES

✳ **SEND FOR LITERATURE** EVODE LTD., (BUILDING CHEMICALS DIVISION) STAFFORD. Phone: 2241-5

London Office: 82 VICTORIA STREET, S.W.1. Telephone: ABBey 4622-3



TRAVIS & ARNOLD LIMITED
INCORPORATING
JOHN EEDE BUTT & SONS

Travis and Arnold offer a *complete* service to the Building Trade. Their stocks of timber (including protim and protim-treated timber), building materials and house components are among the most comprehensive in the country. T. & A. branches throughout England provide quick and friendly attention to all building needs.

TIMBER IMPORTERS & BUILDERS' MERCHANTS • HEAD OFFICE: NORTHAMPTON • *Branches throughout the country*

THE BEST ON B.R.S. TEST

Febmix Admix was an automatic selection for the mortar used in the erection of the first buildings in this country with the new type of hollow brick designed by the Building Research Station.
The highly perforated hollow bricks necessitated a mortar having a high degree of plasticity and that "held together well" and with Febmix Admix imparting these properties, its use contributed towards the big reduction obtained in erection time with this new type of brick.
Four bungalows using the Building Research Station bricks are being erected by Messrs. Morris Builders (Oxford) Ltd., to the design of Mr. F. B. Pooley, F.R.I.B.A., Consultant Architect to the Aylesbury Borough Council. The external brickwork is similar in appearance to the standard solid bricks, but with their mass of disconnected air spaces, insulation value is greatly increased and from the use of Febmix Admix, the mortar joints have increased resistance to rain penetration and to the disintegrating action that can follow repeated cycles of freezing and thawing.

FOR A BETTER MORTAR—BETTER USE

FEBMIX ADMIX

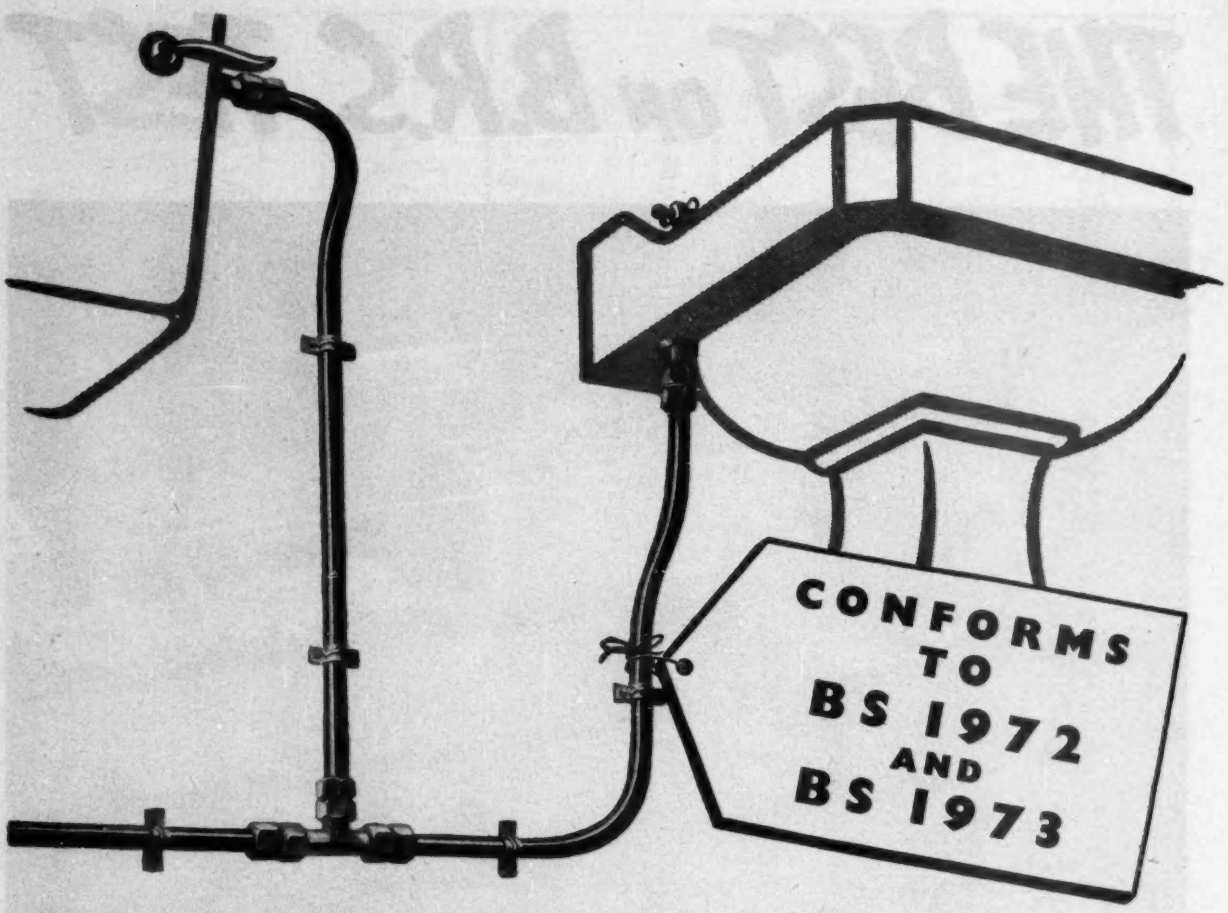
MORTAR PLASTICISER

FROM BUILDERS' MERCHANTS EVERYWHERE

FEB **(GREAT BRITAIN) LTD.**

102, KENSINGTON HIGH STREET, LONDON, W.8. WES. 0444
ALBANY ROAD, CHORLTON-CUM-HARDY, MANCHESTER, 21. CHO. 1063

DHB/6948



Proof of Quality—in pipe extruded from BAKELITE Polyethylene

TRADE MARK

By installing piping extruded from BAKELITE Polyethylene you can be sure of quality. It conforms to British Standards 1972 and 1973 and is backed by the research and resources of Bakelite Limited, whose experience covers every type of plastics. This cold water pipe, which has the full approval of local building authorities, brings many advantages to you and your customers. You will find that it can be installed faster than any metal pipes, requires few fittings and is available in any length you need. Your customers will appreciate the fact that after freeze-ups there is no danger of bursts with pipe made from BAKELITE Polyethylene, and no trouble with corrosion or scaling.

IDEAL FOR SITE WATER TOO

Outstanding toughness, long lengths, flexibility and ease of handling make pipes of BAKELITE Polyethylene ideal for site water. Just make a rough trench, drop in the pipe and back-fill. No painting is required.

Write for further information and a list of pipe manufacturers.

BAKELITE LIMITED

REGD.

12-18 GROSVENOR GARDENS · LONDON SW1 · SLOane 0898

Bakelite Limited manufacture an extensive range of plastics materials and maintain a technical service unequalled in the industry. No matter what your plastics problems, this service is at your disposal. SLOane 0898 is the telephone number.

TGA PP13

It costs no more to use

rendaplas

Only ¼ pint of RENDAPLAS is needed to 1 cwt. of cement to ensure ideal workability. That's because RENDAPLAS is an undiluted mortar plasticiser. RENDAPLAS is made of the finest raw materials and backed by guaranteed control in manufacture. Its resin base produces the minute stable air bubbles that ensure a good mix and reduces the danger of subsequent crazing and cracking.

RENDAPLAS costs less than 4% of your total materials budget

1 gallon RENDAPLAS from.....	14 - 0
is sufficient for	
32 cwt. Cement.....	£10 - 0 - 0
9 cu. yds. Sand.....	£12 - 10 - 0
	£23 - 4 - 0

RENDAPLAS double strength mortar plasticiser

for mortars that *LAST*

You can depend on **Cementone** *products*

JOSEPH FREEMAN, SONS & CO. LTD., CEMENTONE WORKS, WANDSWORTH, LONDON, S.W.18 Telephone : VANdyke 2432 (10 lines)

Where CONCRETE is subject to CORROSIVE ATTACK

USE *The Cement for Industry*

Concrete made with Ciment Fondu has a high resistance to many chemicals which are inimical to ordinary concrete. It is invaluable for floors and other constructional work in Dairies, Breweries and Distilleries, Sugar Refineries, Confectionery Manufacture, Meat Plants, Milk Products, Paper Mills, Artificial Silk Factories, Tanneries, Fertilizer Plants, etc.

CORROSION-RESISTANT CONCRETE

CONCRETE IN HOURS—NOT DAYS

REFRACTORY CONCRETE
(Using firebrick aggregate)

HEAT INSULATING CONCRETE
(Using light-weight aggregate)

CIMENT FONDU
Regd Trade Mark
ALUMINOUS CEMENT

Write today for further particulars and latest literature.

LAFARGE ALUMINOUS CEMENT COMPANY LIMITED

73 BROOK STREET, LONDON, W.1. Telephone: MAYFAIR 8546
AP/70

The finest TILTING DRUM MIXER in the world!

BY APPOINTMENT TO HER MAJESTY THE QUEEN MANUFACTURERS OF CONCRETE BLOCK AND MIXING MACHINERY

NOW AVAILABLE WITH MIXER DRIVE SHOVEL

★ PRESS-BUTTON CONTROLLED SHOVEL WINCH-DRIVEN BY MIXER

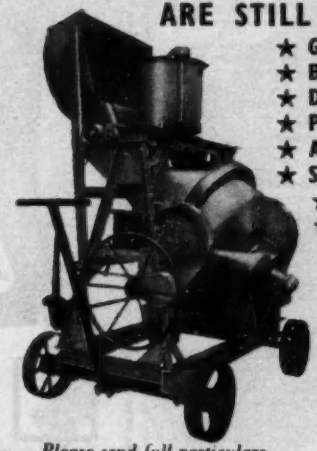
LINER

One man does the work of three with the

CLOVERLEAF

The press-button controlled shovel is winch-driven by the mixer and enables one man to load the Cloverleaf without any other assistance. And of course . . . .

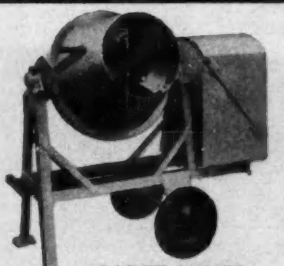
ALL THE REGULAR FEATURES OF THE CLOVERLEAF ARE STILL AT YOUR SERVICE



- ★ GEAR DRIVEN
- ★ BALL BEARINGS THROUGHOUT
- ★ DRUM SPINDLE OUTSIDE OF DRUM
- ★ PATENTED HOPPER CONTROL
- ★ ACKERMAN OR MOTOR CAR STEERING
- ★ STEEL OR PNEUMATIC ROAD WHEELS
- ★ PATENTED INVARAC WATER TANK
- ★ 5T AND 7T SIZES

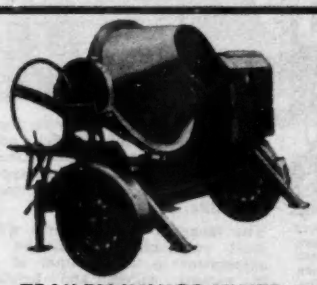
BUY ON EASY TERMS

. . . Credit Sale or Hire Purchase



CADET MIXER

Gives up to 15 cu. yds. of concrete per day. Petrol or electric motor driven. Ideal for the small job.



TRAILEX JUNIOR MIXER

Size 3½ T. Fast-towing from site to site. Petrol or diesel engine. Non-towing models in 3½ T and 5 T sizes.

Please send full particulars of items marked 'X'

- O CLOVERLEAF MIXER
- O ROLPANIT MIXER
- O CADET MIXER
- O CUMFLOW MIXER
- O JUNIOR MIXER
- O ROUGHRIDER DUMPER
- O HYDRAULIC N.T. MIXER
- O PORTASAW
- O SLAB, BLOCK AND BRICK MACHINE

Name . . . . . .

Address . . . . . .

THE LINER CONCRETE MACHINERY CO. LTD.

Phone: Gateshead 72501 **261, PARK ROAD, GATESHEAD, 8.** *Grams: "Liner, Gateshead"*

London Office and Showrooms: Abbey Orchard Street, S.W.1. Phone: Abbey 6185

Ernest Doe

AND SONS LTD.

INDUSTRIAL DIVISION

ULTING MALDON ESSEX

TELEPHONE HATFIELD PEVEREL 311 (Night 319)

for

HYDRAULIC

EXCAVATORS

. . . if anyone can get you into a hole

. . . we can!

EVERYONE KNOWS YOU CAN GET IT AT DOE'S

SECONDHAND BARGAINS

Several **S/H DINKUM DIGGER** hydraulic excavators. Send for details.

1965 THWAITES 1½ ton 'Truker' diesel dumper: £250

LINER DUMPER. Good order: £85

1956 FERGUSON diesel tractor with hydraulic loading shovel: £350

ONIONS 4 cu. yd. scraper: £375

COUNTY crawler P6 engine with hydraulic bull/angledozer: £450

FERGUSON VO tractor with front end loader: £195

1956 BRAY BL90 1 cu. yd. hydraulic loading shovel with hydraulic crowd action bucket. Newly remoulded heavy duty 1,400 x 24 rears and good 750 x 20 fronts. Overhauled. Warranted £1,250

1955 CHASESIDE 500 hydraulic loading shovel. Very good order: £950

CHASESIDE cable operated ¼ cu. yd. loading shovel P6 diesel engine. Electric start. Very good tyres. Can recommend: £800

1963 FIAT 55L diesel crawler with hydraulic angledozer, just fitted new tracks: £1,350

1957 TRACKMARSHALL with hydraulic angledozer. Overhauled: £1,450

1955 CHASESIDE dumper, powered by Ford 4D diesel engine, excellent condition: £495

DOUBLE RAM 'Muledozer' for Fordson Major diesel tractor: £150

NEAL PELICAN loader with 21 cu. ft. hydraulic grab, suitable for fitment to Fordson Major diesel tractor: £495

1957 BRAY BL400 4-wheel drive loading shovel on 1,400 x 24 and 10.50 x 16 heavy duty pneumatics. 1 cu. yd. hydraulic crowd action bucket: £1,750

New **THWAITES** 'Nimbus' 15 cwt. 4-wheel diesel dumper, with 2-position skip: £350.5.0

All these machines can be bought on special low deposit, long time to pay terms.

BRAY hydraulic angledozer equipment complete for P6 County: £275

HYDOR compressor with Krupp concrete breaker and hose to fit 3-point linkage of Fordson Major Tractor. Complete: £275

HOLMAN S tractair compressor on VO Fordson Major tractor, complete with hose and concrete breaker: £375

HOLMAN S tractair compressor on Fordson Major diesel tractor, with hose and concrete breaker: £435

Several **HOLMAN** clay spaders in very good order: £35 each

MACKAY hydraulic angledozer equipment complete for Fiat 55L: £375

BLAW KNOX angledozer equipment complete for Fowler VF crawler tractor: £300

1955 BRAY crawler shovel, 1 cu. yd. crowd action bucket. Just had £500 overhaul: £1,350

REX 75 10/7 cu. ft. capacity concrete mixer. Petrol engine. Good order: £110

S/H WHITLOCK 3 ton hydraulic all-steel dump trailer: £195

ACE 5 cwt. builder's hoist. Complete. Overhauled: £185

1958 WHITLOCK Dinkum Major, complete with ¾ cu. yd. power shovel: £1,850

New **BRAY BL25** 1 cu. yd. crawler loading shovel with Power Major 52 h.p. engine and disc slewing brakes, ex-stock: £3,100

1956 BRAY 1 cu. yd. crawler loading shovel. Rebuilt: £1,950

Full stocks of Spare Parts for Dinkum Diggers, Thwaites dumpers, Bray loading shovels, Fordson Majors, County crawlers, Trackmarshalls, etc. All Petter Engine and Perkins Spares.

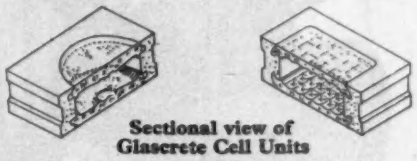
Ernest Doe & Sons Ltd

GLASCRETE

CELL UNITS

Patent No. 700119

Glascrete Cell Units provide a light-transmitting and load-bearing construction for roofs, floors, canopies, walls and partitions, giving excellent sound and thermal insulation and retaining a flush surface on both sides whatever the thickness.



Sectional view of Glascrete Cell Units

Data applications and possibilities of Glascrete are given in our interesting Brochure P47, which we shall be pleased to send on request.

J. A. KING & CO. LTD.

181 QUEEN VICTORIA STREET, LONDON, E.C.4

and now the **Alborough SLIDE OVER**

Prices from £19

The ball-bearing slide-over action with counterbalance weights enables the door to be raised and lowered in an effortless manner. There are no complications when fixing.

The "Alborough" slide-over door is of hot dipped Galvanised Steel Laths steel welded and riveted construction, and designed to give a pleasing appearance with maximum strength, lightness and durability.

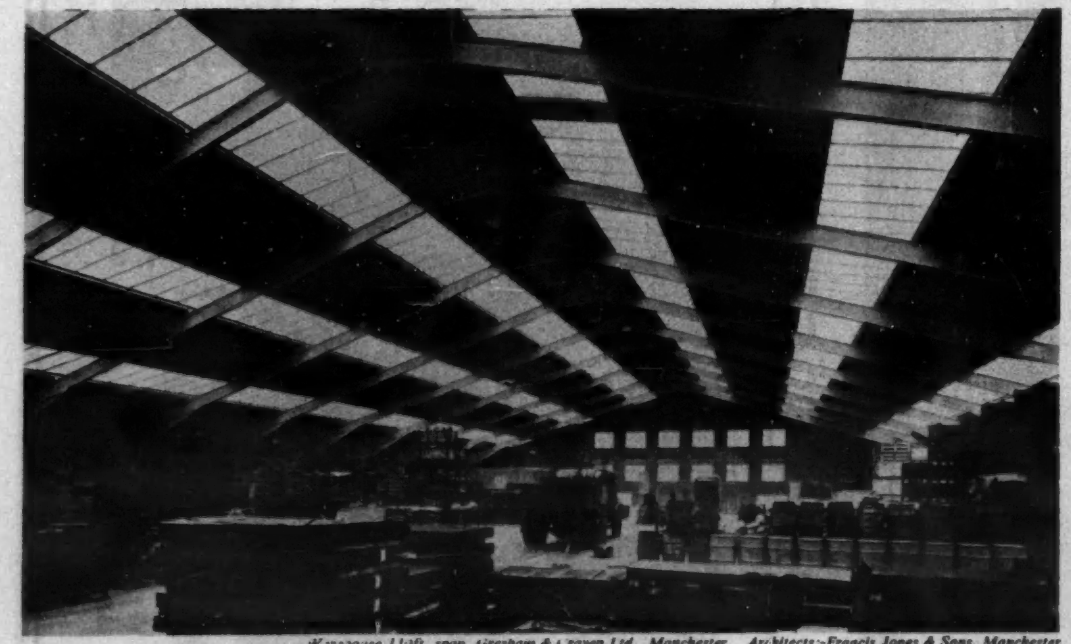
The range of standard sizes will meet most requirements, and by simple adjustment to door frames of garages of various widths and heights, all requirements can be met.

A.B.C.D. (Raynes Park) LTD., 34/35 Alpha Rd., Surbiton, Surrey

Tel.: Elmbridge 6591/2/3 and 9347

CONDER CLEARSPAN

SLASHES BUILDING COSTS—OUTDATES TRADITIONAL CONSTRUCTION



Warehouse 110ft. span. Gresham & Craven Ltd., Manchester. Architects:-Francis Jones & Sons, Manchester.

CLEARSPAN Buildings have established a brilliant new conception of Industrial Building Design.
Hitherto "Standard" type buildings have been largely confined to the "Shed" variety; and their use limited accordingly.
Now CLEARSPAN brings all the great advantages of Standard Construction to a very wide range of Industrial Buildings. CLEARSPAN sets a new standard of design and efficiency.

* Spans 25 ft. to 150 ft.
* Roof Slopes 12°-17°-22°.
* Cranes 5 tons and 10 tons.
* Virtually maintenance free.

(Variations to order.)

Brochure with 32 pages of facts, drawings and photographs sent on request.

CLEARSPAN *Buildings are used by many leading Industrial concerns including :—*

Atomic Energy Commission.
British European Airways Ltd.
De Havilland Engine Co.
Esso Petroleum Co. Ltd.
Imperial Chemical Industries Ltd.
Imperial Tobacco Co. Ltd.
J. Lyons & Co. Ltd.
Ministry of Works.
National Coal Board.
Shell Mex & B.P. Ltd.
Southern Electricity Board.
George Wimpey & Co. Ltd.

CONDER ENGINEERING CO LTD WINNALL WINCHESTER HANTS TEL: 5095
CONDER ENGINEERING CO (MIDLANDS) LTD PEEL HOUSE BURTON-ON-TRENT TEL: 5411

P.5056

ALL-GLASS CONSTRUCTION

Harvey Hudson Ltd., South Woodford, E.18.
Architect: V. Fletcher Russell, F.R.I.B.A.
Shopfitters: Stewart Fraser Ltd.

The Clark-Eaton

'BLACKFRIARS' SYSTEM

offers unlimited scope to the designer

The photographs illustrate an ideal application of the 'Blackfriars' System for a motorcar showroom entrance. Special retractable springs enable entrance doors and sidelights to be folded back to provide a completely free entrance.

Please ask for literature and design sheets or come and see the numerous installations in our showrooms.

CLARK'S FOR GLASS

JAMES CLARK & EATON LTD.

SCORESBY HOUSE, GLASSHILL STREET, BLACKFRIARS, LONDON, S.E.1

Telephone: WATerloo 8010 (20 lines)

CANTERBURY, BOURNEMOUTH, EASTBOURNE, READING, OXFORD (H. Hunter & Co.)

IBSTOCK FACING BRICKS

Were specified for the extensions to the Printing Works of

ODHAMS
(WATFORD) LTD.

ST. ALBANS ROAD,
WATFORD, HERTS.

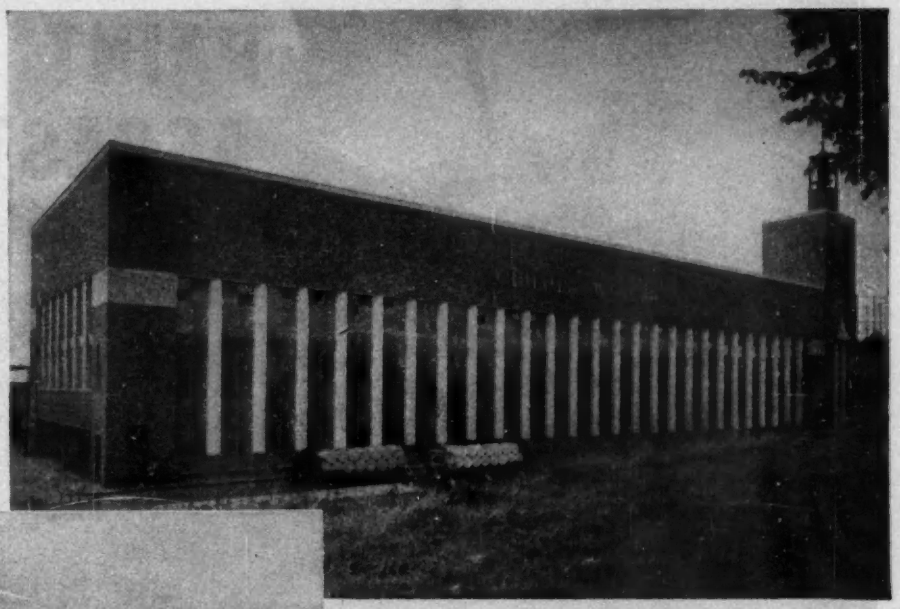


Photo by courtesy of Odhams (Watford) Ltd.

Photo by courtesy of Odhams (Watford) Ltd.

Architects Yates, Cook & Darbyshire
Contractors W. & C. French Ltd.

Ibstock Multi Golden Brown Handmade facing bricks were chosen for this fine modern extension to the Photogravure, Letterpress, Bookbinding and General printing works, and neatly completed for Odhams (Watford) Ltd. Architects everywhere specify Ibstock facing bricks for durability and appearance.

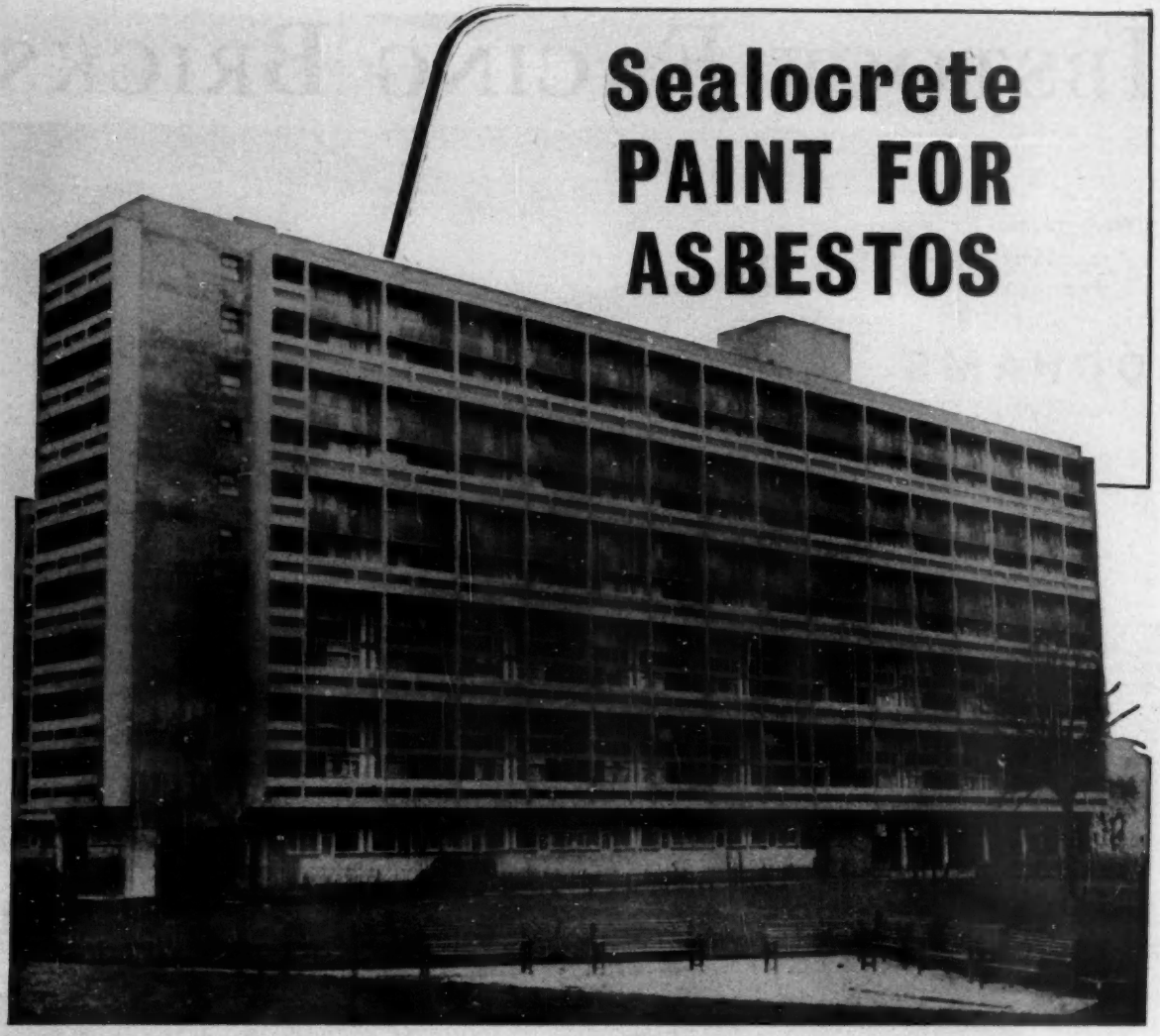
Send for samples to :

Ibstock **FACING BRICKS**

Ibstock Brick & Tile Company Limited, Ibstock, near Leicester
London : L.M.R. Goods Depot, Wright's Lane, Kensington, W.8

Telephone : Ibstock 591 (3 lines)
Telephone : Western 1281 (2 lines)

Sealocrete PAINT FOR ASBESTOS



SEALOCRETE PRODUCTS
USED ALL OVER THE WORLD

Sealocrete Paint for Asbestos used on the balconies of Loughborough Road Flats for the London County Council. Architect to the London County Council: Hubert Bennett Esq., F.R.I.B.A. Main Contractors: Tersons Ltd., London, N.3. Painting Contractors: T. H. Kenyon & Sons Ltd., London W.9.

★

TELEGRAMS:
SEALOCRETE, WESPHONE,
LONDON

maximum protection in the treatment of most surfaces

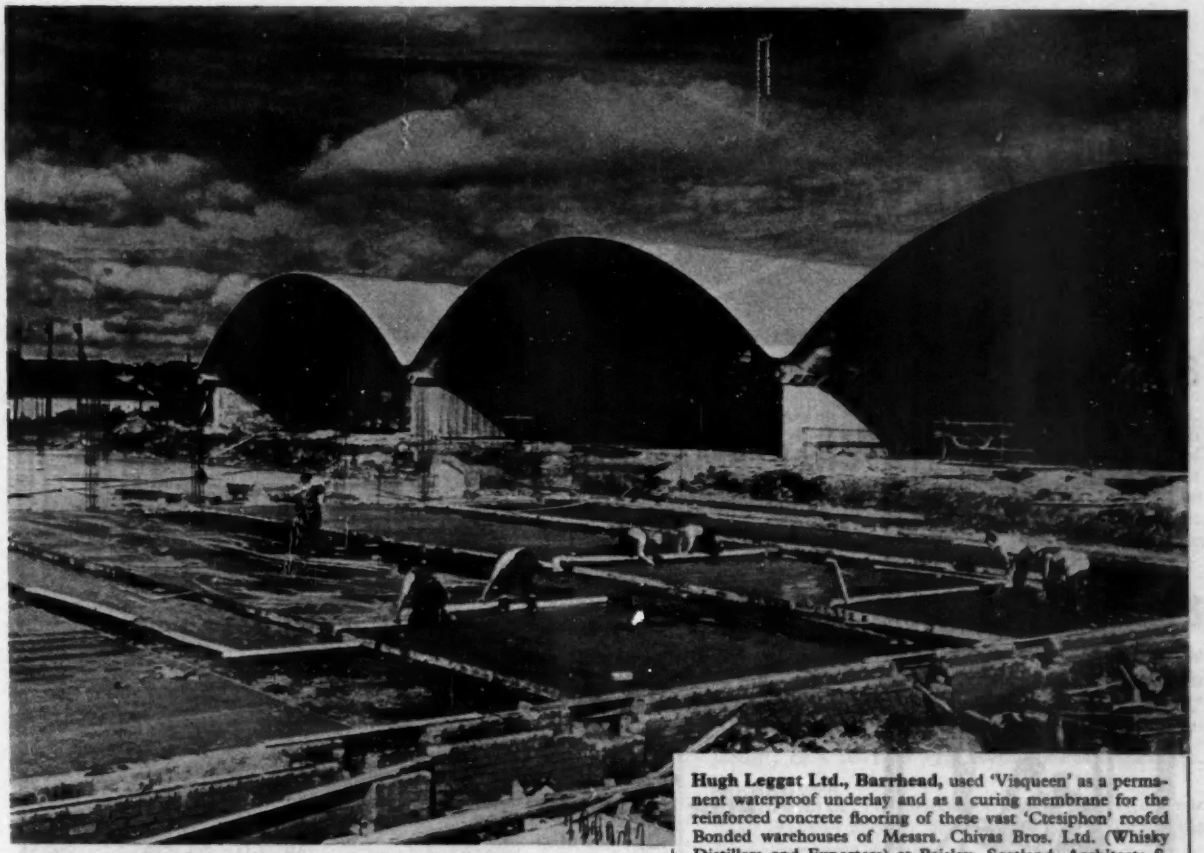
Sealocrete Paint for Asbestos represents a new formulation in Paints and Surface Coating. It is quick drying and flexible. It can be applied to concrete, cement renderings, asbestos, plaster, brickwork, timber, building boards, etc. It has excellent resistance to acids, chemicals and oil, which makes it specially satisfactory for use where atmospheric conditions are severe as in many industrial areas, and for factory maintenance.

Sealocrete Paint for Asbestos cannot under any circumstances saponify as it does not react chemically with alkalis, and is, therefore, an ideal decorative and protective coating for asbestos cement products.

SEALOCRETE PRODUCTS LIMITED

ATLANTIC WORKS · HYTHE ROAD · LONDON NW10

TELEPHONE: LADBROKE 0015 PBE



Hugh Leggat Ltd., Barrhead, used 'Visqueen' as a permanent waterproof underlay and as a curing membrane for the reinforced concrete flooring of these vast 'Ctesiphon' roofed Bonded warehouses of Messrs. Chivas Bros. Ltd. (Whisky Distillers and Exporters) at Paisley, Scotland. Architect: S. Lothian Barclay.

Progressive builders fight rising damp with VISQUEEN TRADE MARK polythene sheets

FAILURE TO PROVIDE efficient protection against rising damp and chemical attack, can involve a contractor in extensive and costly repairs. Now, by using 'Visqueen' building sheet these risks can be eliminated.

Laid under the ground, floor rafts of houses, or under concrete flooring in factories, warehouses it will provide a complete seal against liquid water and an efficient barrier to water vapour. Furthermore, on sites where the sulphate content of the subsoil is high, the acid-resisting qualities of 'Visqueen' will ensure life-time protection for floor coverings and adhesives. 'Visqueen' is easy to handle, the wide widths easy to lay.

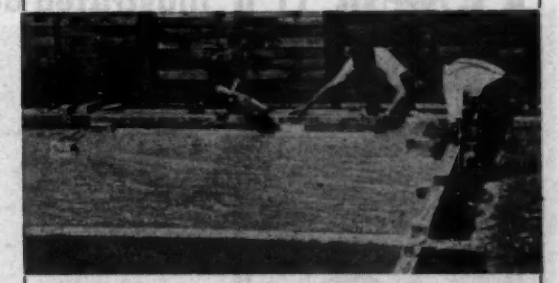
No jointing compounds or heat sealing are necessary – just a single overlap or a double welt type fold and protection is complete. 'Visqueen' is cheaper than other conventional overite membranes.

Write now for full details, an illustrated brochure and the name of the nearest appointed stockist to:—

BRITISH VISQUEEN LIMITED

STEVENAGE. HERTS. 'PHONE STEVENAGE 1310

A SUBSIDIARY OF IMPERIAL CHEMICAL INDUSTRIES LIMITED

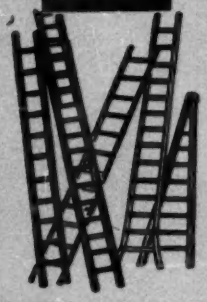


Unity Structures Ltd., London, laying 'Visqueen' 500 (heavy weight) as a damp-proof membrane between the hardcore and concrete flooring of these two semi-detached prototype houses built by them at Ruislip. The film was laid over the hardcore in 12 ft. widths in one continuous strip over the party walls, and incorporated into the cavity wall with the D.P.C.

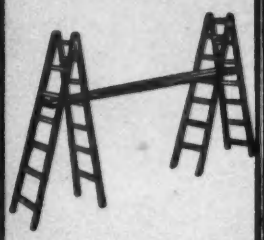
John McLean & Sons Ltd. of Wolverhampton, use 'Visqueen' sheeting as a damp-proof membrane under the ground floor rafts of their "Beverley" houses in the Midlands. Architects: Diamond Hodgkinson & Partners.

BV.127/2

LADDERS



TRESTLES

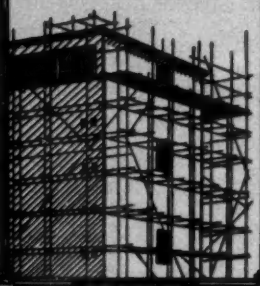


Building

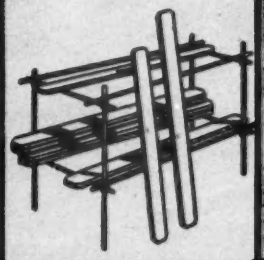
STEPHENS & CARTER

Equipment

SCAFFOLDING



SCAFFOLD BOARDS



HIGH QUALITY CRAFTSMAN-BUILT PRODUCTS

made from the finest materials

SPECIALLY DESIGNED

to withstand constant rough usage

FIRST-CLASS SERVICE

... prompt delivery by road over a wide area

EXTENSIVE STOCKS HELD

at all the depots listed below

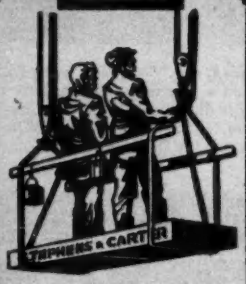
All products available

FOR SALE OR HIRE

For complete details, write for

Illustrated descriptive brochure

CRADLES



BOSUN'S CHAIRS

LADDERS
Extensive variety including Pole, Extension, Push-up or Rope-operated, etc.

SCAFFOLDING
All types—Independant, Putlog, Cantilever, Birdcage or Slung.

CRADLES
Travelling and fixed types for straight or curved frontages.

STAGING
All lengths from 10 ft. to 24 ft., 18 in. wide.

STEPS
4 tread to 20 tread.

TRESTLES
4 ft. to 18 ft.

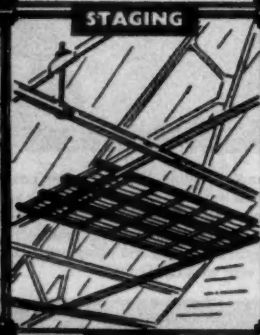
SCAFFOLD BOARDS
All lengths.

BOSUN'S CHAIRS
Safe, strong metal construction.

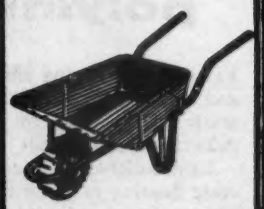
WHEELBARROWS
Capacity 3 to 7 cu. ft.

"BENFORD" CONCRETE MIXERS
Small half-bag size to 10/7. Alternative power units.

STAGING

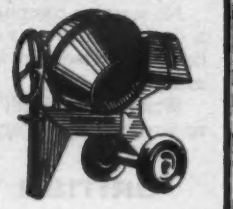


WHEELBARROWS



STEPS

'BENFORD' CONCRETE MIXERS



STEPHENS & CARTER LTD.

Suppliers to the trade since 1840

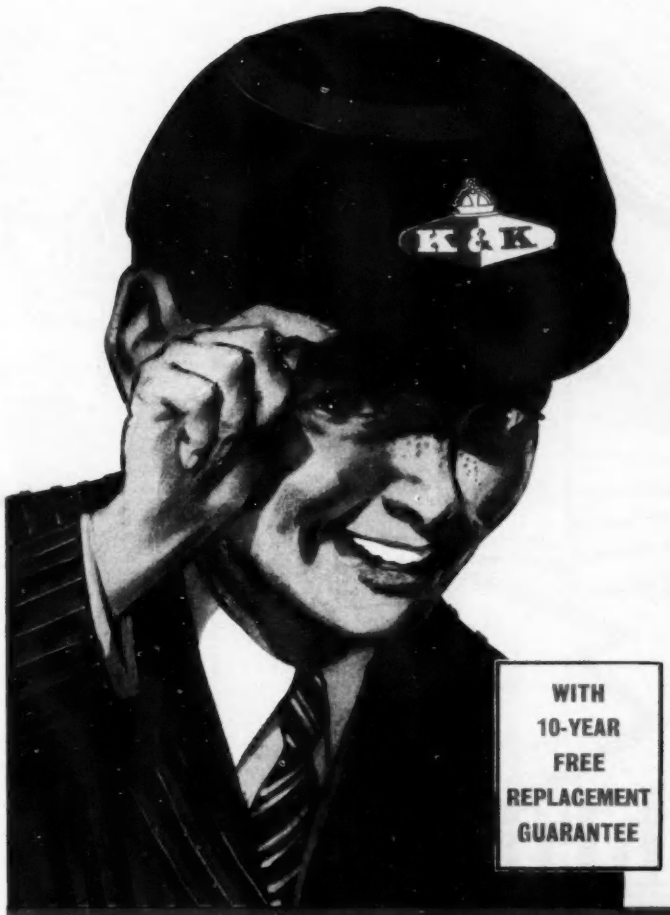
LONDON 731-761 Harrow Road, N.W.10
Tel: Ladbroke 1191 (7 lines)

HIGH WYCOMBE Coronation Road.
Tel: High Wycombe 3183

BIRMINGHAM Bordesley Green, 9. Tel: Victoria 1226

SCOTLAND West Canal Street, Coatbridge
Tel: Coatbridge 525

AGENTS: In Cardiff—Newcastle-on-Tyne—Bristol—Belfast



WITH 10-YEAR FREE REPLACEMENT GUARANTEE

TOP MARKS

FOR SPECIAL SERVICES TO SCHOOLS

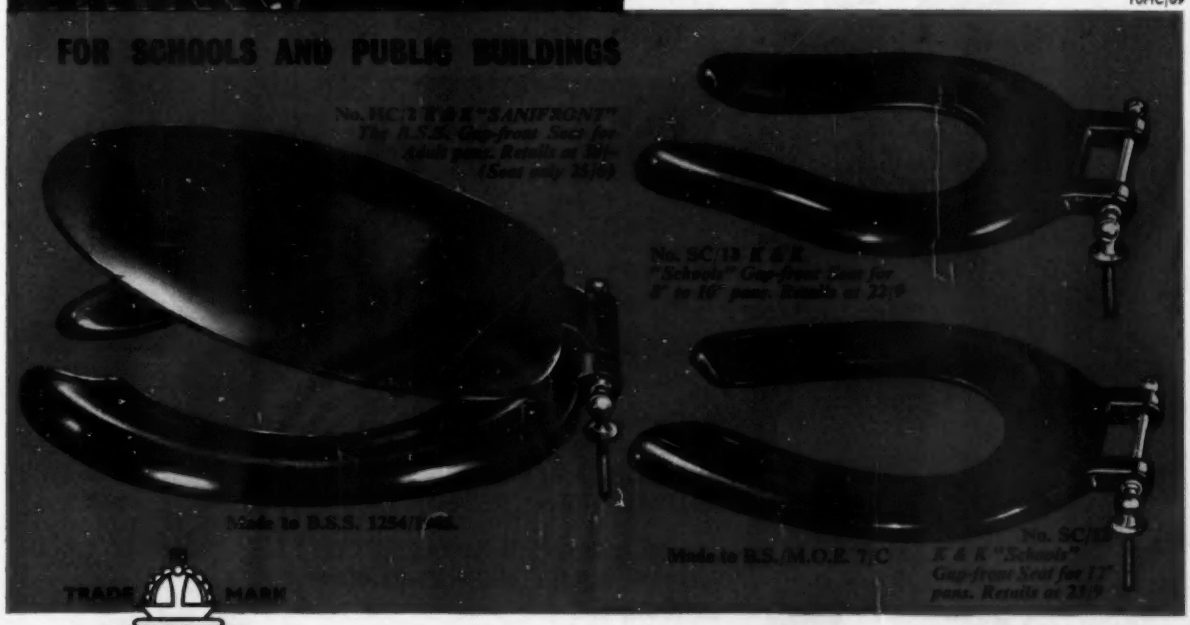
The Ministry of Education calls for Plastic Toilet Seats in three special designs, the tool costs of which run into several thousands of pounds. Quantities of seats required are small and prices must be kept moderate. It is obvious that only Seat Specialists like 'K & K' are able to "tool for schools" and to make the supply of 'School' seats available throughout the country.

FOR HOSPITALS, OFFICES & HOTELS

There is also an adult gap-front 'K & K' design (made to B.S.S. 1254/1945) which is particularly popular in Hospitals, Works Offices and Hotels. Like all 'K & K' Toilet Seats these special models carry the "gilt-edge" security of a 10-Year Free Replacement Guarantee.

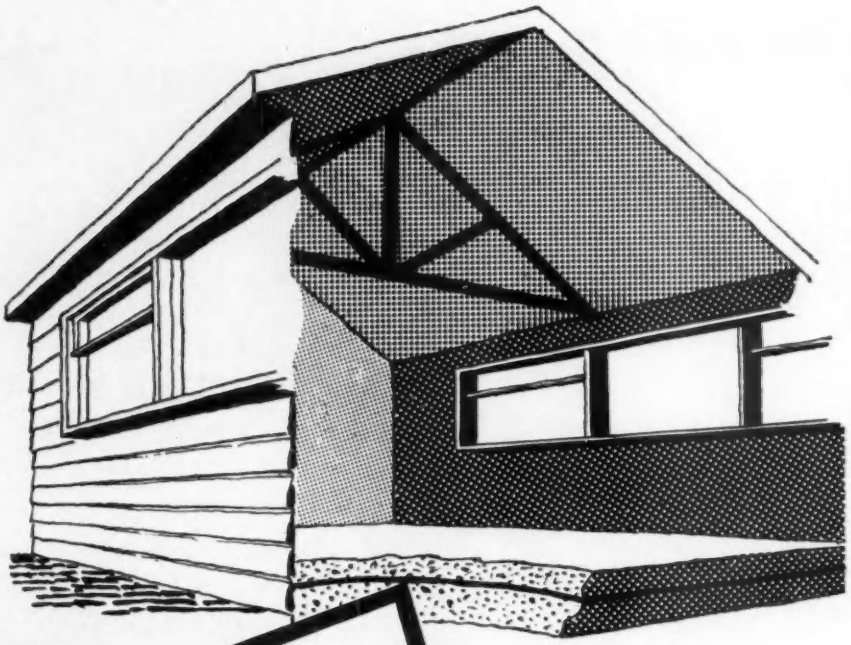
DISCOUNTS. The prices shown are *subject to your usual discount* and all 'K & K' Seats are obtainable from your local stockists.

10HC/69



K&K 60 YEARS LEADERSHIP IN TOILET SEATS

Obtainable from your local suppliers. If any difficulty write:
THE KINGSLAND COMPANY (PLASTICS) LIMITED, 163-175 Hoxton Road, London N.1.



DAMP won't pass through...

LACOL 1281

RISING DAMP is dangerous—prevent entry by application of LACOL 1281, *the* Rubber/Bitumen Emulsion which forms a permanent damp barrier between two layers of concrete. Similarly an application of LACOL 1281 to a concrete roof will prevent DESCENDING DAMP.

Our leaflet on this subject gives the full applications of LACOL 1281 and will be supplied on request.

DUSSEK BITUMEN & TAROLEUM LTD.
EMPRESS WHARF, BROMLEY-BY-BOW
LONDON, E.3.

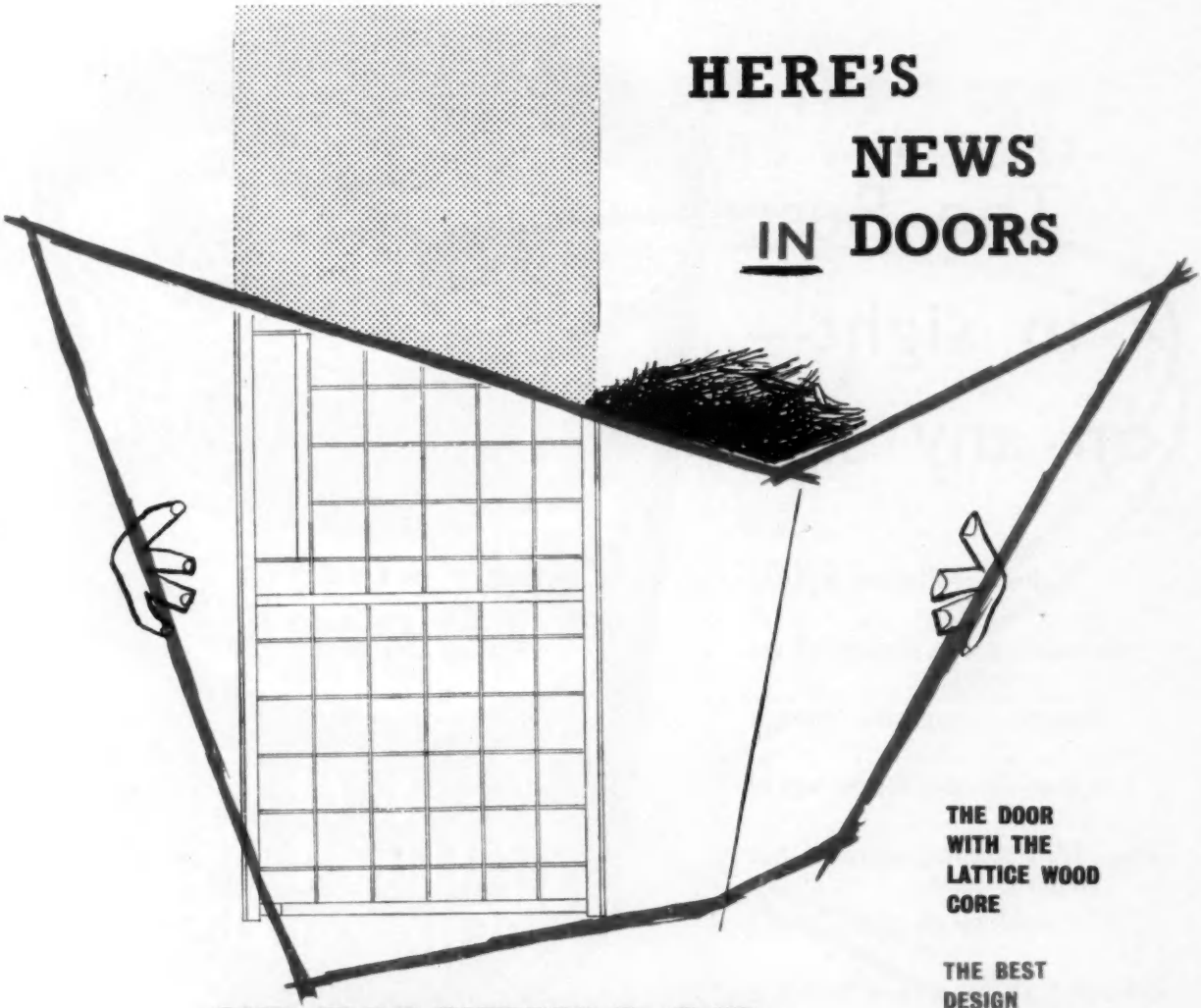
Tel: ADVANCE 4127
Grams: Trinidite, Bochurch, London
And at Warrington and Glasgow

DUSSEK

SPECIALISTS IN THE MANUFACTURE OF BITUMINOUS PRODUCTS FOR 55 YEARS.

dm DB.238

HERE'S NEWS IN DOORS



THE DOOR WITH THE LATTICE WOOD CORE

THE BEST DESIGN WITH DELIVERY ON TIME

THE PRICE IS RIGHT AND THE QUALITY IS FINE

GRANGEWOOD

'LATTICE CORE' INTERNAL DOORS

WOOD THROUGHOUT—WITHOUT A DOUBT

POST THIS COUPON TODAY

AUSTINS OF EAST HAM LIMITED, LONDON, E.6
PLEASE SEND ME YOUR FREE CATALOGUE INCLUDING LATTICE CORE DOORS
NAME .....
ADDRESS .....
.....
COUNTY .....
STATE BUSINESS .....
B.46 *(PLEASE USE BLOCK CAPITALS)*

Austins
of EAST HAM

THE BIGGEST NAME IN JOINERY

50 YEARS OF JOINERY

AUSTINS OF EAST HAM LIMITED
LONDON, E.6 GRANGEWOOD 3444-9

50 YEARS OF JOINERY

THE PARENT COMPANY OF THE AUSTIN HALL GROUP OF COMPANIES

S.W. England Distributors: Jennings (Bristol) Ltd., 146 Pennywell Road, Bristol. Telephone: Bristol 56041

The Best in sight— on any site

A drum of Plasmor is found on building sites throughout the country. The 5-gallon content replaces the need for 80 bags of lime. It's a mortar plasticiser—but a mortar plasticiser with a difference. It has a name behind it that has been known and trusted in the trade for half a century.

Yes, it's Lillington's PLASMOR, chosen by Architects and preferred by Builders from Land's End to John O' Groat's because the quality and performance never varies and the price is so economically attractive.

Specify Lillington's PLASMOR as your mortar plasticiser and be sure of these advantages—

LILLINGTON'S **Plasmor**

- ★ **Cuts cost**
- ★ **Eliminates lime**
- ★ **Makes mortar spread like butter**
- ★ **Reduces shrinkage cracks**
- ★ **Gives better bonding**
- ★ **Speeds output**
- ★ **Ensures perfection at an economical price**

For full details write for Booklet M.

ALL OUR PRODUCTS SUPPLIED IN FREE CONTAINERS

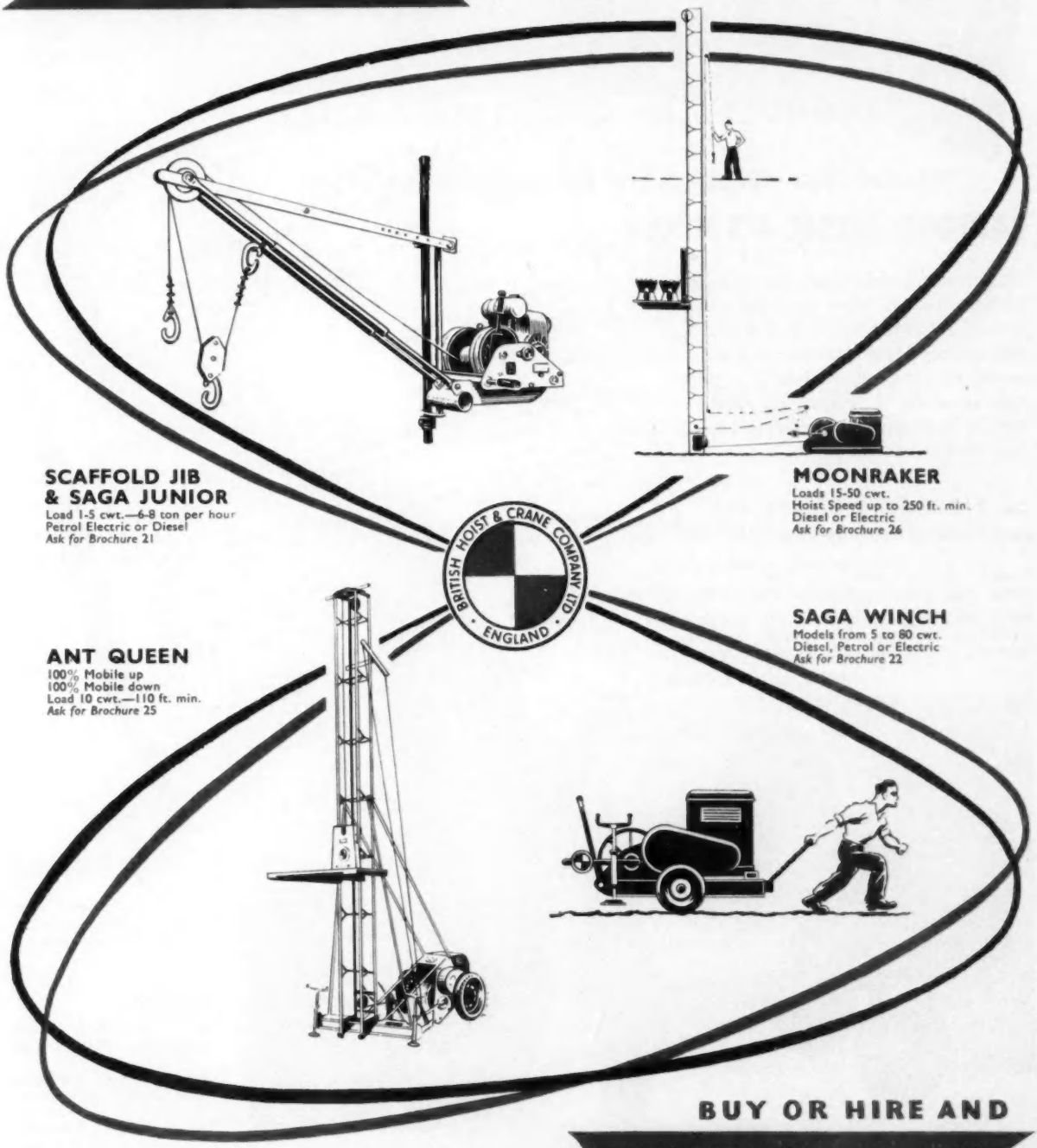
GEORGE LILLINGTON & CO. LTD.

Willow Lane, Mitcham, Surrey. Telephone: Mitcham 1066

For Scotland: 42 High Street, Greenock.

AP327

BHC HOISTS THE PROFIT LOWERS THE COST



SCAFFOLD JIB & SAGA JUNIOR
Load 1-5 cwt.—6-8 ton per hour
Petrol Electric or Diesel
Ask for Brochure 21

MOONRAKER
Loads 15-50 cwt.
Hoist Speed up to 250 ft. min.
Diesel or Electric
Ask for Brochure 26

SAGA WINCH
Models from 5 to 80 cwt.
Diesel, Petrol or Electric
Ask for Brochure 22

ANT QUEEN
100% Mobile up
100% Mobile down
Load 10 cwt.—110 ft. min.
Ask for Brochure 25

BUY OR HIRE AND

DEPEND ON BHC

BRITISH HOIST & CRANE COMPANY LTD., COMPTON, NEWBURY, BERKSHIRE *Telephone:* Compton, 234 (5 lines) *Telegrams:* Brithoist, Compton, Berks.
London Spares & Service Depot: SLOane 0629

"the 4/3 is the finest concrete mixer we have ever used..." writes Mr. R. F. T. Davis—Director of a long-established firm of builders

TIMMINS & DAVIS
(WOLVERHAMPTON) LTD.
Builders and Contractors

FAWDRY STREET
WOLVERHAMPTON
TELEPHONE WOLVERHAMPTON 24660

RFTD/FB

Barford (Agricultural) Ltd.,
Belton,
Grantham,
Lincolnshire.

March 2nd, 1959.

Dear Sirs,

We have recently purchased a new Barford 4/3 diesel concrete mixer through your agents Messrs. W. V. Davies of Shipston on Stour.

We are delighted both with the construction and performance of this model, as over the past 20 years we have tried numerous types of concrete mixers and without doubt the 4/3 is the finest that we have ever used.

We placed our order by telephone at 10-45 a.m. on Tuesday 17th February and the mixer was delivered to the Wrekin Estate, Wellington at 3-45 p.m. the same day. Excellent service.

We shall place a further order with your agents Messrs. W. V. Davies for a further four 4/3 concrete mixers in the near future.

Yours faithfully,
For Timmins & Davis (Wolverhampton) Limited,

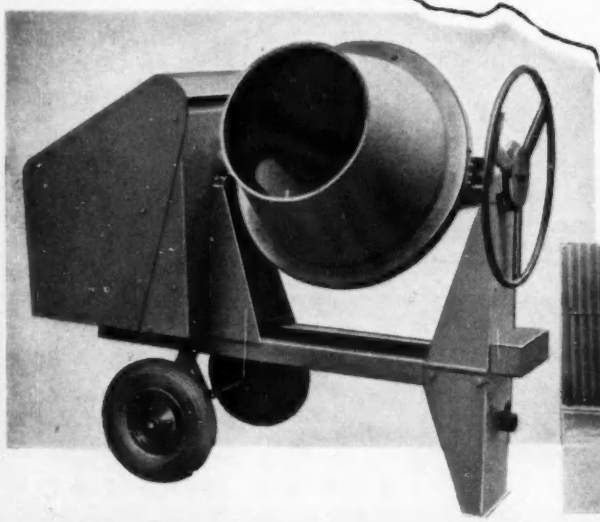
Director.

BARFORD DIESEL 4/3 MIXER

Since its recent introduction, the new Diesel 4/3 Barford Concrete Mixer has been acclaimed by users everywhere for its low running costs and high standard of performance. The testimonial letter reproduced here is genuine evidence of the advantages you stand to gain by employing this economical and hard-working machine . . .

the FIRST-EVER DIESEL 4/3 cuts running costs by over half!

Engine: 1½ h.p. Diesel Lister L.D. or Petter PAZ Mk. V. Capacity: One batch: 4 cu. ft. in, 3 cu. ft. out. Output per 8-hour day—20 cu. yards (approx.)



There is a Barford Mixer for every job

We offer a comprehensive range from 4/3 to 10/7 of the Tilting Type, and from 7/5 of the Non-Tilting Type.

PRICES:

4/3 Diesel (with pneumatic tyred wheels) **£145** delivered

4/3 Petrol (with pneumatic tyred wheels) **£92** delivered

5/3½ — Prices on application

BARFORD ONE OF THE AVELING-BARFORD GROUP

Please send me full details of the 4/3 Mixer

Name _____

Address _____

BARFORD MIXERS *Manufactured by*
BARFORD (AGRICULTURAL) LTD
BELTON · GRANTHAM · LINCOLNSHIRE

MERTHYRWARE

Modern floor tiling that is GUARANTEED for longer wear and richer colour

Put Merthyrware on the floor—and make a *good* job of it. There is no substitute for real ceramic tiles when it comes to economy, lasting wear and resistance to absorption, acids, frost and fire. Impervious to moisture and easy to clean, Merthyrware give permanent beauty—in rich, natural, blemish free traditional colours of Buff Mingle and Samian Red.

7 Good Reasons for Ordering Merthyrware

- ★ More economical than any comparable tile.
- ★ Swift deliveries—24 hour service.
- ★ Accurate and consistent in size and flat surface.
- ★ Rich, natural colours, free from surface blemish.
- ★ Acid proof and fire proof.
- ★ Unaffected by frost.
- ★ Ideal for underfloor heating—not affected by temperature changes.

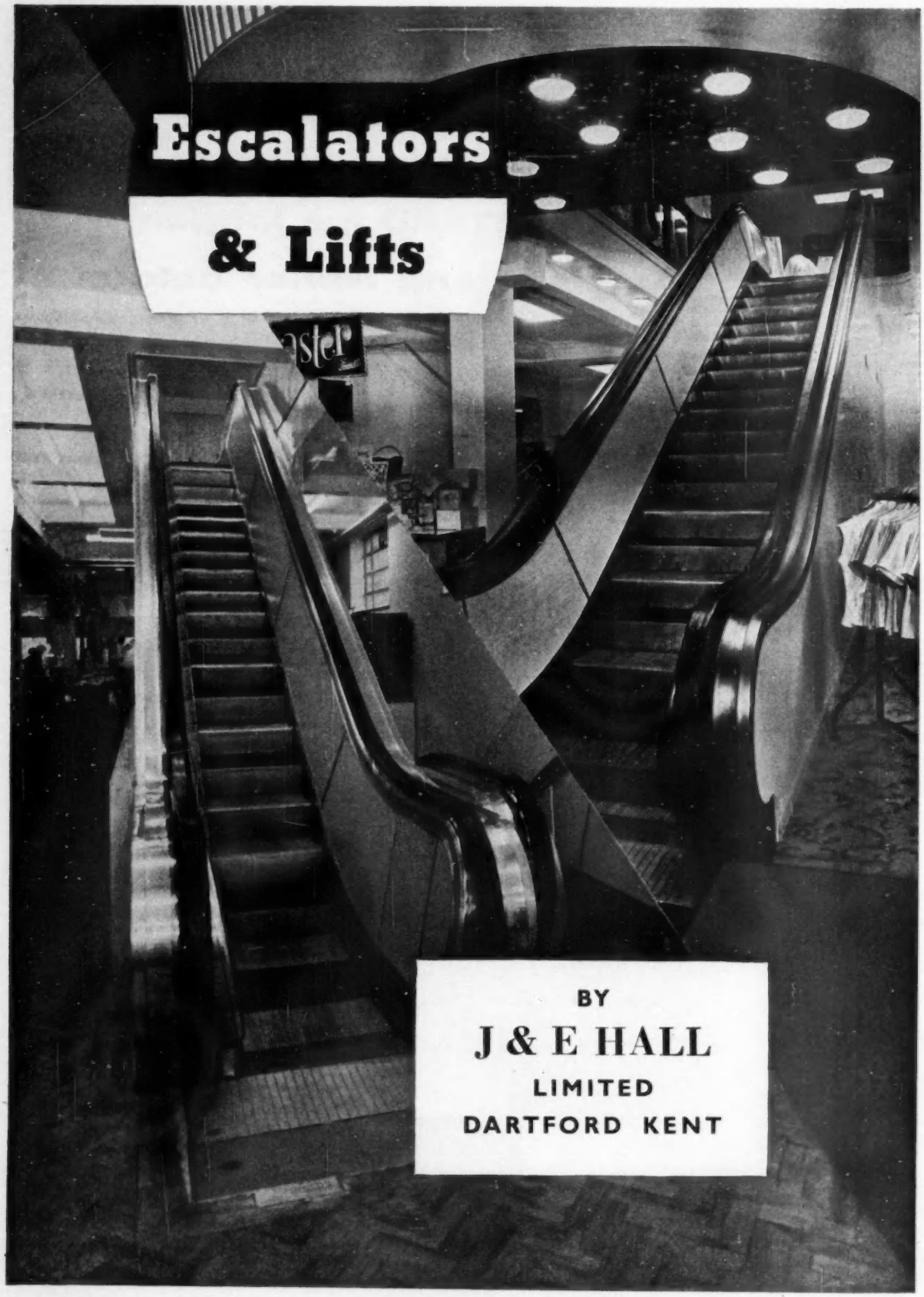
Merthyrware Standard Supreme for accurate size and consistent colour.

***And now*—Ceramic Cill Tiles** For External and Internal use. From 7½" to 10" in length and 6" wide—to fit all cills. The finest cill protection you can buy.

For immediate delivery, write or 'phone:—

Head Office and Sales
MERTHYRWARE LIMITED
5 CARKER'S LANE · LONDON, N.W.5
TELEPHONE : GULLIVER 8761

MERTHYRWARE TILES
They never wear out



AP 41

EDWIN JONES

SOUTHAMPTON

THE LARGEST STORE IN THE SOUTH

ARCHITECTS
MESSRS. HEALING AND OVERBURY

CONSULTING ENGINEER
R. H. THOMASON, M.I.STRUCT.E.

CONTRACTORS
JAMES LONGLEY & CO. LTD.

QUANTITY SURVEYORS
MESSRS. L. A. FRANCIS & SONS

REINFORCED CONCRETE FLOORS

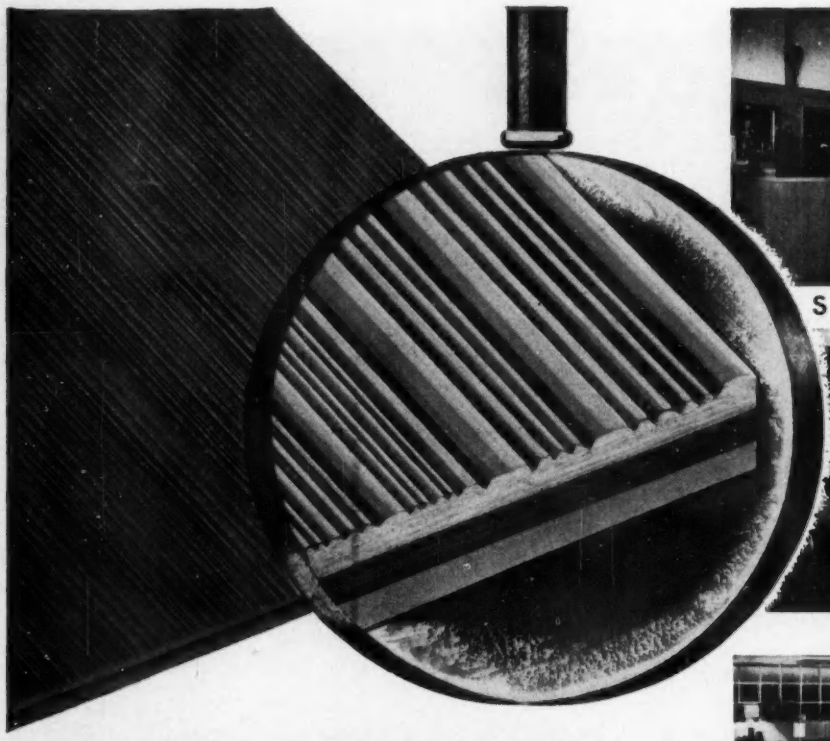
ROOFS, CANOPIES

AND STAIRCASES

CONSTRUCTED BY

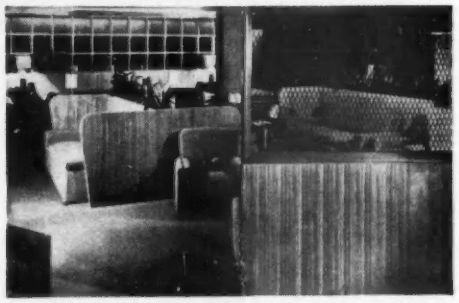
Phillips FLOORS LTD.

REINFORCED CONCRETE SPECIALISTS · WESTERN HOUSE, WESTERN AVENUE, EALING, W.5 · PERIVALE 6641

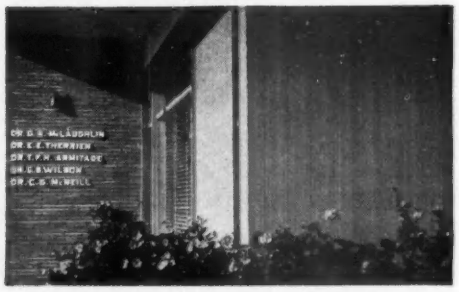


SHOP INTERIORS

OFFICES



CLUBS



EXTERIOR WALLS

WELDTEX

a new three-dimensional plywood

BEAUTIFUL indeed are walls of Weldtex, Seaboard's newest plywood. The random-width vertical grooves softly diffuse the light and break up the wall surface in a pattern of delicately pencilled shadow-lines. Joints between panels are absolutely invisible. In restaurants, clubs, offices and shops it forms a friendly relaxing background. Bonded with water-proof glue, Weldtex is also a splendid exterior wall finish, impervious to sun, rain and snow. If your usual supplier does not stock Weldtex he can order it for you. Standard panels 8 x 4 feet, ⅜ inch thick.

PHENOLIC BOND
WATERPROOF
WEATHERPROOF
BOIL TESTED

SEABOARD
CANADIAN DOUGLAS FIR
PLYWOOD

Seaboard Lumber Sales Co. Limited, Seaboard House, Vancouver 1, Canada

N. R. M. Morison, Esq.,
1-3 Regent Street,
London S.W. 1

Please send me free Weldtex folder (L1).

Name .....

Address .....

.....

(Please print plainly)

UK 59-16-16

"QUIKLOCK"

Burton's ADJUSTABLE STEEL TRESTLES

PAT. APP. FOR

1 Exceptionally strong Double Folding Trestle, suitable for Bricklayers, Plasterers, Decorators, Works Maintenance, etc.

2 Simple to set up by one man, no erection problems.

3 When Trestle is in use the feet lock at right angles, and for storage and transport can be folded and locked at 180 degrees, in other words **BURTON'S** Trestles lock in every 90 degree position.

4 Standard width take 4 — 9" Boards.

Folded for Storage and Transport.

Burton's Double Folding Trestle supplied in the following four sizes.

Size	Height from Floor to Board level in 3" adjustments.	Approx. Wt. each in lbs.
1	1' 9" Rising to 2' 9"	41
2	2' 9" " " 4' 6"	54
3	4' 6" " " 6' 3"	70
4	6' 3" " " 8' 0"	100

LONDON & MIDLAND STEEL SCAFFOLDING CO. LTD

ST. LUKE'S WORKS, OLD HILL, STAFFORDSHIRE

Telephone: Cradley Heath 69181, 5 lines P.B.X. Telegrams: Dubelgrip, Cradley Heath

LONDON OFFICES: 6 LYGON PLACE, S.W.1

Telephone: Sloane 7291-3 Telegrams: Dubelgrip, Sowest, London

100 MILLION MORE 'PHORPRES' BRICKS ARE ON THE WAY

Work is now in progress on plant extensions which will yield an additional 100 million Common and Facing bricks in a full year.
Planning on this project commenced in the Autumn of 1958 and construction is being pushed forward with all speed to meet the urgent demands of the building industry.
For the past twelve months all our works have been producing to their maximum capacity.

LONDON BRICK COMPANY LIMITED

in the service of the building industry

Head Office: Africa House, Kingsway, London, W.C.2. Tel: HOLborn 8282

Midland District Office: Prudential Buildings, St. Philip's Place, Birmingham 3. Tel: Central 4141

South-Western District Office: 11 Orchard Street, Bristol 1. Tel: Bristol 23004/5

Northern District Office: St. Paul's House, 20-22 St. Paul's Street, Leeds. Tel: Leeds 20771

PHORPRES

BY APPOINTMENT TO HER MAJESTY QUEEN ELIZABETH II BRICK MAKERS

HELIBOND COLD WORKED REINFORCEMENT

. . . is now in full production

HELIBOND is a new cold worked bar that complies fully with B.S.1144. It offers great scope for saving on the weight of steel reinforcement required, which in turn means considerable saving in cost.

- With Helibond the concrete bond stress may be increased by 25% over mild steel (B.S. Code of Practice No. 114, 1957).
- 1 ton of Helibond can be substituted for 1½ tons of mild steel in tension.
- This smaller tonnage means less congestion on site, lower transport, handling, bending and fixing costs, and a saving in time.

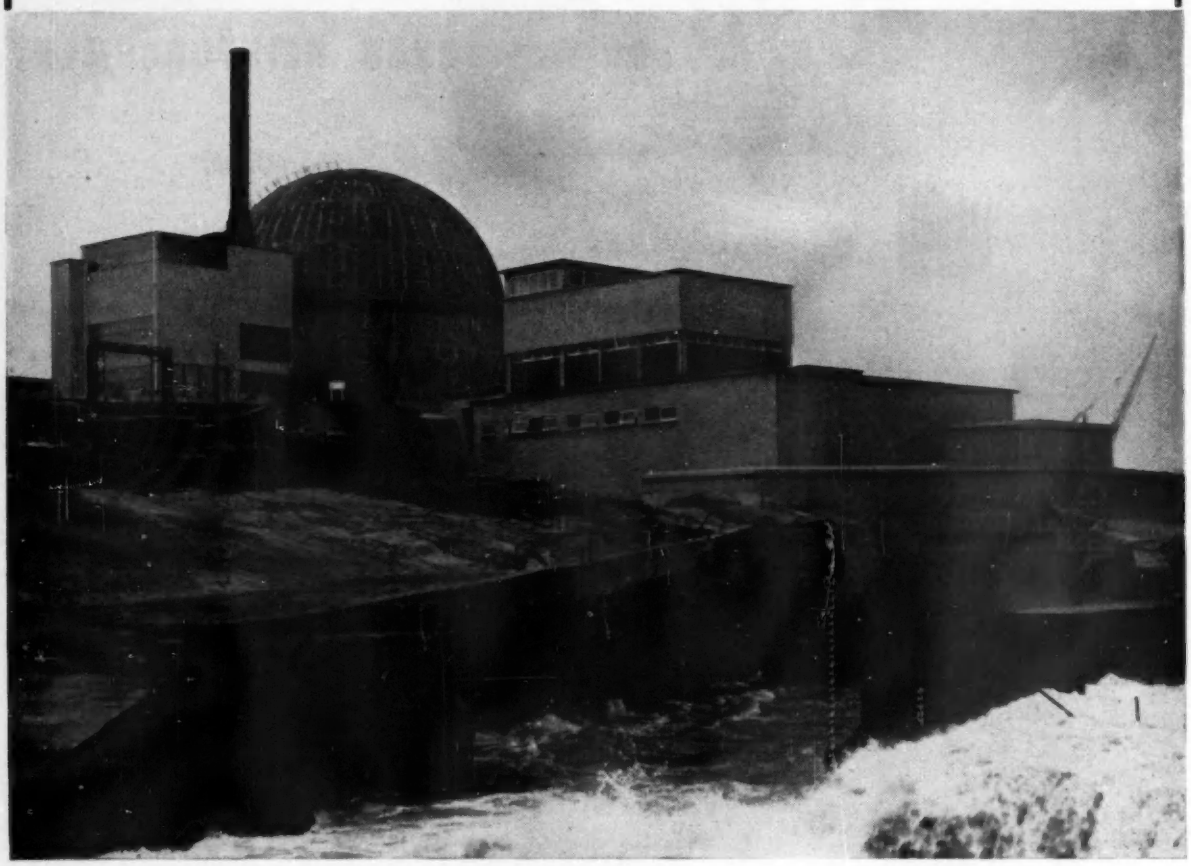
HELIBOND REINFORCEMENT

Enquiries are now invited for immediate delivery, either in 40 ft. lengths, cut to length, or bent to schedule. We shall also be glad to undertake designing and fixing if required.

THE HELICAL BAR & ENGINEERING CO. LTD

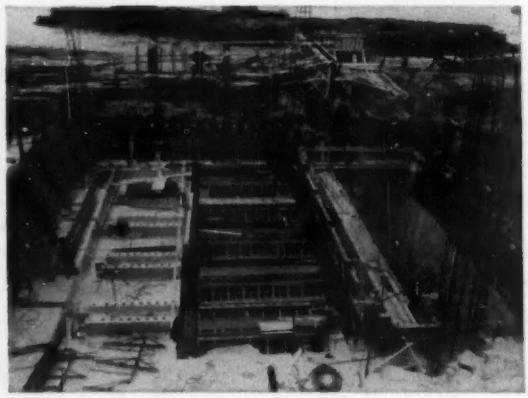
82 Victoria Street, London, S.W.1. Telephone: VICtoria 6838

PLYWOOD SHUTTERING



For the **Fast Breeder Reactor at Dounreay, Caithness**

of the United Kingdom Atomic Energy Authority



The concrete shuttering used by **WHATLINGS LTD.**, who are the main Civil Engineering and Building Contractors for the project, was ¾" Thamesply Standard Concrete Shuttering—the Phenol Bonded W.B.P.* Test plywood that will not delaminate, has low deflection and gives a perfect finish.

CONCRETE SHUTTERING

(Phenol Bonded W.B.P. Test)

Supplied only through the usual trade channels

** Weather and boil proof to B.S.1203*

THAMES PLYWOOD MANUFACTURERS LTD. Harts Lane, Barking, Essex. *Telephone: Rippleway 5511*

The eggs are in fewer baskets

TWELVE MONTHS AGO, when building operations were curtailed and bricks were very plentiful, the brick industry presented "The Case for the Local Brick". It concluded with the following:

"Any large-scale closing of brickworks at the present time would not only seriously curtail future supplies; it might well place the building industry in a difficult position both as to supply and prices of bricks when the present building restrictions are removed."

The supply position now developing as a result of greater activity in the building industry provides early justification for this warning. Since it was issued, a number of brickworks have been compelled to close down. Meanwhile, builders who were attracted further afield by lower prices are finding that even the largest sources of supply are not inexhaustible.

It is illogical to ignore the local brickworks when there is a glut of cheap bricks and expect to find them still ready to execute orders when the supply position gets difficult.

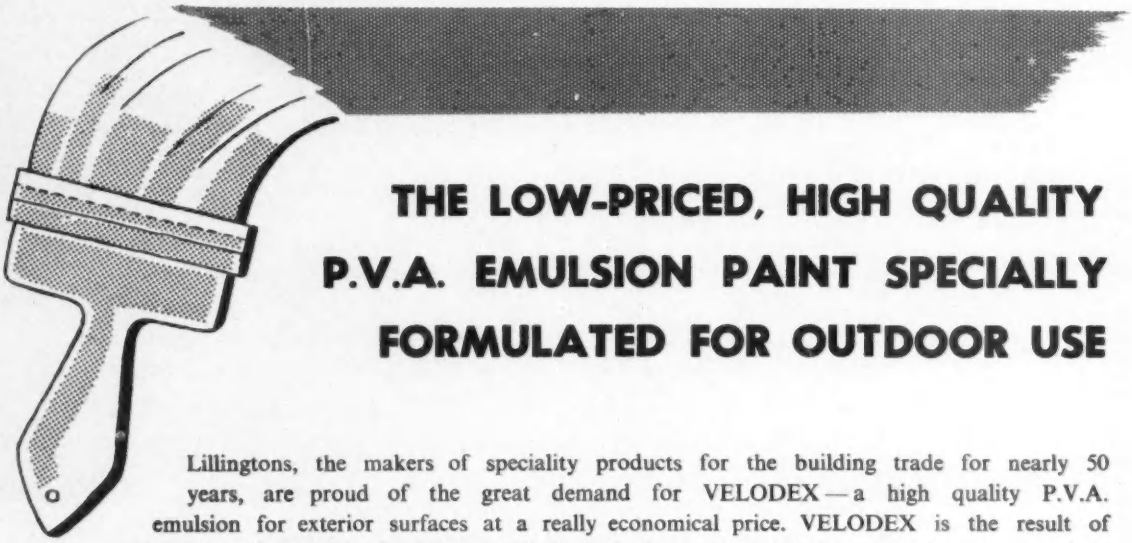
The brick industry is one of the first to suffer when building is curtailed. It takes time to step-up production, and the "eggs" are now in fewer "baskets".

THE FOUNDATION OF GOOD BUILDING
BRICK

Give preference to your local brickworks when they need your orders, and they will be there to serve you when you really need them.

Issued by The National Federation of Clay Industries, Drayton House, London, W.C.1

VELODEX



THE LOW-PRICED, HIGH QUALITY P.V.A. EMULSION PAINT SPECIALLY FORMULATED FOR OUTDOOR USE

Lillingtons, the makers of speciality products for the building trade for nearly 50 years, are proud of the great demand for VELODEX — a high quality P.V.A. emulsion for exterior surfaces at a really economical price. VELODEX is the result of extensive research and gives far better results than dual purpose paints because it has been specially formulated for outdoor use. Apply VELODEX to all outside walls—whether brickwork, concrete, renderings or asbestos cement sheets—it has exceptional adhesive properties over existing coats of oil paints. It's simple to apply, quick drying, durable, washable and unaffected by alkalis.

VELOID—The outstanding P.V.A. emulsion paint for **interior surfaces,** is the perfect partner to Velodex. Offered at a price far lower than that of any comparable brand, VELOID is carefully formulated to give ease of brushing with widest coverage—allowing two coats to be applied in a morning and giving a speedy economical finish of top quality.

Use VELODEX and VELOID for maximum decorative effect at minimum cost

VELODEX
20/3 per ½-gal. tin
38/3 per 1-gal. tin
36/- per gallon in 5-gal. pails
Write for colour card and booklet V.E.I

VELOID
32/6 per gallon in 1-gallon tins
30/6 per gallon in 5-gallon pails
Write for colour card and booklet P.V.I

GEORGE LILLINGTON & CO. LTD

WILLOW LANE, MITCHAM, SURREY
Phone: Mitcham 1066

For Scotland: 42 HIGH STREET, GREENOCK
Phone: Greenock 20175

3169

THE BUILDER

Readers' Service

SECOND FOLD

Postage will be paid by The Builder Ltd.

No Postage Stamp necessary if posted in Great Britain or Northern Ireland

BUSINESS REPLY FOLDER
Licence No. WC1799

THE BUILDER LIMITED,
READERS' ENQUIRY SERVICE,
4, CATHERINE STREET,
LONDON, W.C.2

FIRST FOLD

LAST FOLD

CUT

TUCK IN

If you would like more information regarding any of the products mentioned in this issue please detach the whole of this page and complete the form overleaf.

THE BUILDER

Readers' Service Form

	PAGE NO.		PAGE NO.

Reader's Name .....

Address .....

.....

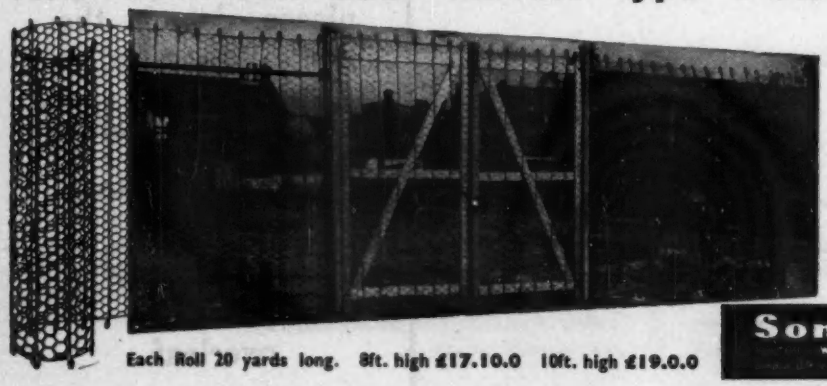
Profession or Trade .....

.....

Be sure to fill in the page number of the goods, materials or services about which you would like further details. We will then ensure that your request is sent to the advertiser concerned.

.....

THE SOMMERFELD TRACK type PORTABLE FENCING



FOR BUILDING SITES

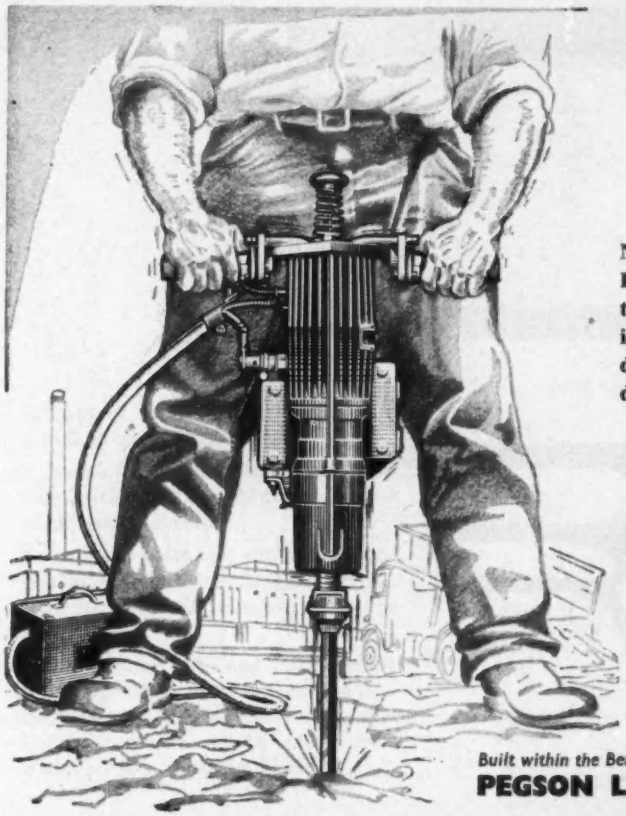
Most contractors are familiar with the economies obtained by using Sommerfeld Track for fencing building sites, etc. This newly manufactured track from new 3" galvanised 12/13 g. wire netting, is reinforced to Sommerfeld patent with ⅜" round mild steel bars, looped top and bottom. It is specially designed to meet your requirements and being light in weight can be rolled up and out into a fence in a matter of minutes; what is more, it is quite portable.

Each Roll 20 yards long. 8ft. high £17.10.0 10ft. high £19.0.0

Sommerfelds Ltd.
WELLINGTON SHROPSHIRE ENGLAND

CUT

CUT



NEEDS NO COMPRESSOR

No compressor, air lines or heavy transport are needed with Pegson Rippers. They are completely self-contained. Quick to start, easy to operate and exceptionally efficient they are ideal for road ripping, rock and hard core breaking, demolition, digging clay, light pile driving, etc. We would be pleased to demonstrate. Ask for particulars, write for latest leaflet.

PEGSON
ROAD RIPPERS

Built within the Bentley Group by

PEGSON LTD. • COALVILLE • LEICESTERSHIRE

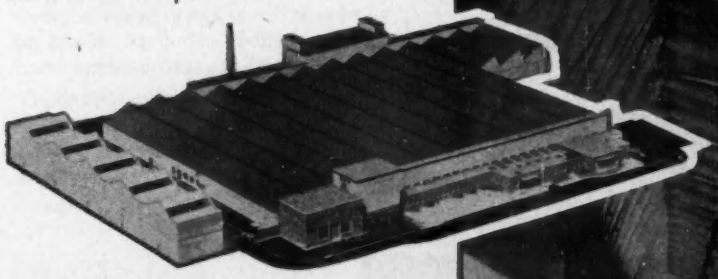
Tel.: COALVILLE 1234 (10 lines)

LONDON OFFICE: IDDESLEIGH HOUSE, CAXTON ST., LONDON, S.W.1 Tel.: ABBEY 2373

Scottish Office: 7 LISTER RD., HILLINGTON INDUSTRIAL ESTATE, GLASGOW Tel.: HALFWAY 1800

AIR CONDITIONING BY

SUPPLYING
18,800,000
cubic feet of air per hour



EXTRACTING
15, 100,000
cubic feet of air per hour

Mellor Bromley

JUTE INDUSTRIES LTD. DOUGLASFIELD
Architects and Consultants: Sir Alexander Gibb & Partners, London

MELLOR BROMLEY (AIR CONDITIONING) LTD.

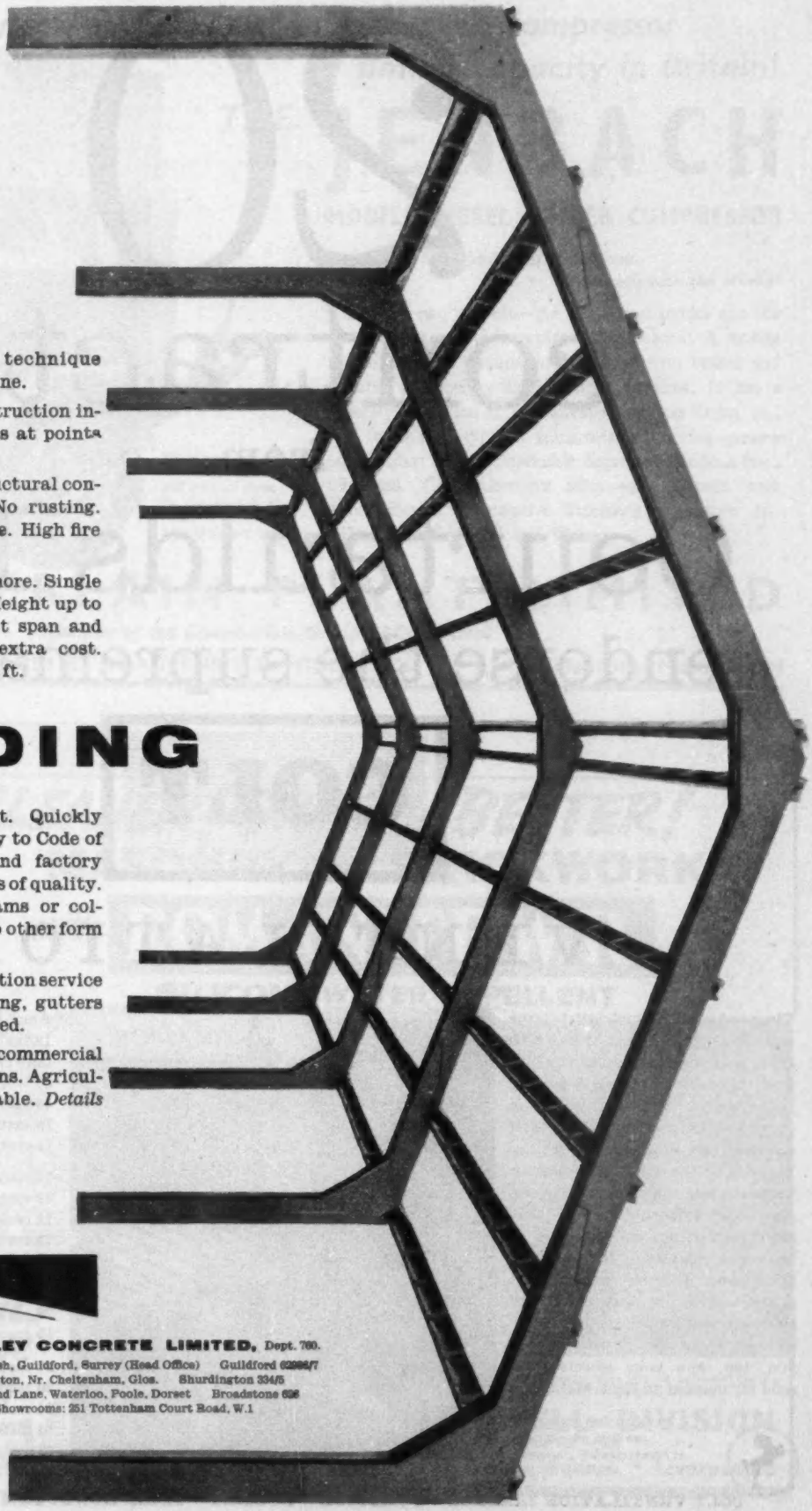
HEATING, VENTILATING AND AIR CONDITIONING ENGINEERS AND CONTRACTORS

BARKBY ROAD, LEICESTER. TELEPHONE: LEICESTER 66651

MEMBER OF THE BENTLEY GROUP

AC38

MARLEY CLEAR SPAN



Advanced engineering technique allied to clean pleasing line.

3 piece—rigid frame construction incorporating scarfed joints at points of minimum stress.

No exposed bolts. All structural connections are internal. No rusting. Virtually no maintenance. High fire resistance.

Spans 18 ft to 50 ft—and more. Single or multiple assemblies. Height up to 18 ft to eaves. The exact span and height required at no extra cost. Standard bay lengths 15 ft.

BUILDING

Remarkably low in cost. Quickly erected. Designed strictly to Code of Practice (CP.114.1957) and factory made to highest standards of quality. No site encasure of beams or columns, no painting and no other form of costly delay.

Complete supply and erection service by Marley includes roofing, gutters and foundations if required.

Thousands of industrial, commercial and municipal applications. Agricultural versions also available. *Details and quotations on request.*

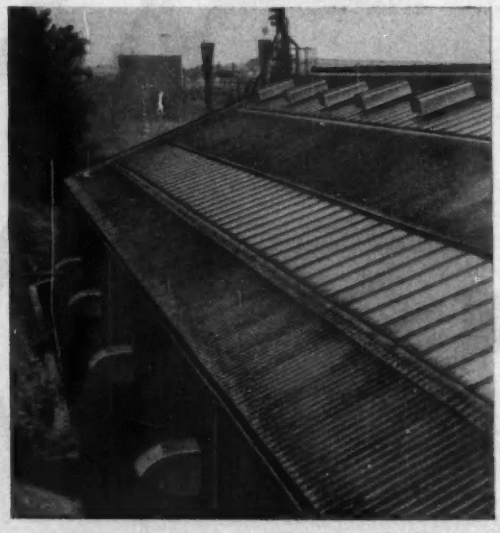
MARLEY CONCRETE LIMITED, Dept. 760.
Peasmarsh, Guildford, Surrey (Head Office) Guildford 62994/7
Shurdington, Nr. Cheltenham, Glos. Shurdington 334/5
Hatchpond Lane, Waterloo, Poole, Dorset Broadstone 626
London Showrooms: 251 Tottenham Court Road, W.1

20 contracts from Courtaulds Ltd endorse the supremacy of

COLT

VENTILATION

Time and again, industrialists large and small place repeat orders with Colt. And for three good reasons. Colt ventilation systems depend in the main on internal convection currents—*not* external forces—and are therefore little affected by the vagaries of the wind. Colt offer an unparalleled range of ventilators. And most important, every Colt recommendation is based on a thorough analysis of the building, plant and process either from a site survey or drawings. Such thoroughness influences firms such as Courtaulds Ltd. It will impress you, too. Ask your secretary to send for manual to Dept. M35/6A



COLT S.R.C. 2046 VENTILATORS AND WALL INFLOW UNITS AT COURTAULDS LTD., COVENTRY

Among the 12,000 major Industrial Organisations using Colt equipment are:

25 contracts:	*British Oxygen Co. Ltd.*
15 contracts:	*Cow & Gate Ltd.*
15 contracts:	*Dorman Long & Co. Ltd.*
12 contracts:	*English Steel Corporation Ltd.*
14 contracts:	*Ferranti Ltd.*
16 contracts:	*General Motors Ltd.*
11 contracts:	*Thomas Hedley & Co. Ltd.*
15 contracts:	*Hoover Ltd.*
22 contracts:	*Lever Bros., Port Sunlight Ltd.*
9 contracts:	*Joseph Lucas Ltd.*
29 contracts:	*National Coal Board*
19 contracts:	*Philips Electrical Industries Ltd.*
21 contracts:	*The Plessey Co. Ltd.*
20 contracts:	*Ruston & Hornsby Ltd.*
14 contracts:	*British Enka Ltd.*
14 contracts:	*Bristol Aircraft Co. Ltd.*
32 contracts:	*English Electric Co. Ltd.*

COLT VENTILATION LIMITED · SURBITON · SURREY · TELEPHONE: ELMBRIDGE 0161 (10 LINES)

Unapproachably lower in price than any other Compressor of similar capacity in Britain!

Please note that this model is included in and available from the Chamberlain Hire Fleet. Ring HOWard 4994

THE **JENBACH**

MOBILE DIESEL DRIVEN COMPRESSOR

Now being used under all conditions throughout the World!

There are two models—the hand start model and the electric start model (complete with battery). A mobile unit fitted with pneumatic tyres, over-run brakes and suitable for towing behind light vehicles. It has a capacity of 78 cu. ft. at a pressure of 100 lb./sq. in., and its special type of transmission ensures greater equilibrium and a remarkable degree of freedom from vibration. Comprehensive after sales service with either model. Descriptive literature from sole distributors in England and Wales:—

CHAMBERLAIN PLANT LIMITED

Member of the Chamberlain Group of Companies

CROWN WORKS, SOUTHBURY ROAD, ENFIELD, MIDDLESEX. Telephone: Howard 4994

CLEANER! DRYER! BETTER!

MASONRY *and* BRICKWORK

***with* ROMANITE W.R.**

SILICONE WATER REPELLENT

★ **ROMANITE W.R.**

is manufactured basically from highly refined silicone resins. It is a potent silicone water repellent, effective, durable and economical. Simplicity is the keynote of application by either brushing or spraying. Ready for use.

Dirt and impurities in rain and atmospheric dampness simply flow away and leave the masonry and brickwork clean, dry and free to breathe.

Concrete slab, partly treated. See how the water sinks into the untreated portion and stays in drops elsewhere. Note the sharp division.

Manufacturers: **ANDREW MAXWELL DIVISION**

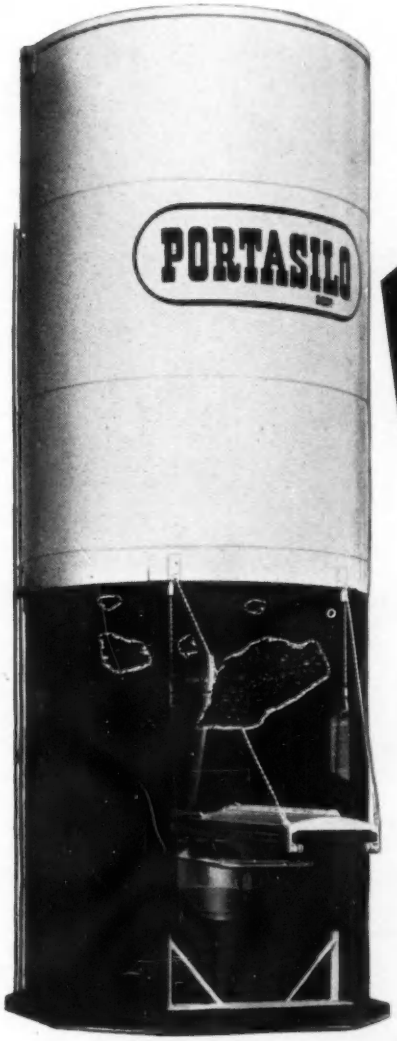
(The Liverpool Borax Co. Ltd.)

Maxwell House • St. Paul's Square • Liverpool 3

We interrupt these pages to bring you an important announcement

PLEASE TURN TO PAGE 71

there's nothing like the PORTASILO



FOR SALE OR HIRE

- Fully proved on many hundreds of sites.
- A range to suit all sizes of Concrete Mixers.
- No condensation problems.
- Backed by a first class after sale service.
- Fully automatic, remote push button control provided by the addition of the Portasilo 'Autofeed' which can be interchanged between Portasilos as required.

PORTASILO REGD.

Covered by patents or patent applications in Great Britain and the Principal countries of the world

PORTASILO LIMITED

CONTRACTORS' PLANT DIVISION: **CORONATION ROAD · PARK ROYAL · LONDON N.W.10 Telephone ELGAR 6214 · 6215 · 3726**
HEAD OFFICE: YORK and at BIRMINGHAM · MANCHESTER · GLASGOW · BRISTOL · BELFAST · DUBLIN

Write or phone to-day for full details of the 11, 15, 20 and 30 tons capacity models, or ask for a technical representative to call

C*

EDWIN JONES

Department Store

SOUTHAMPTON

Illustrated in this issue

MAIN CONTRACTORS

Building Contractors

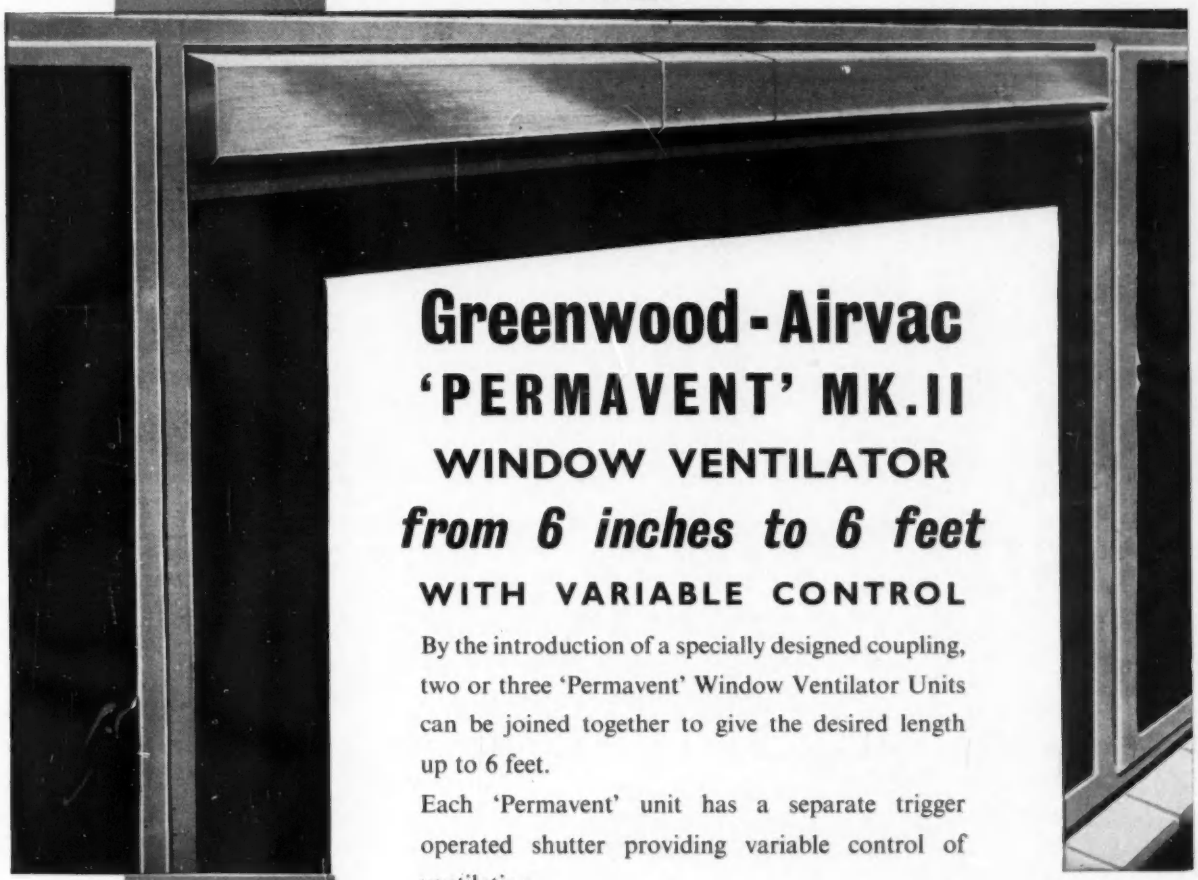
James LONGLEY & Co. Ltd.

CRAWLEY

ESTABLISHED 1860

Telephone: CRAWLEY 666

Ventilation *plus* daylight



Greenwood-Airvac
'PERMAVENT' MK.II
WINDOW VENTILATOR
from 6 inches to 6 feet
WITH VARIABLE CONTROL

By the introduction of a specially designed coupling, two or three 'Permavent' Window Ventilator Units can be joined together to give the desired length up to 6 feet.

Each 'Permavent' unit has a separate trigger operated shutter providing variable control of ventilation.

This is the ideal unit for the modern picture window.

and the 'Permavent' Minor

Economical and unobtrusive, the 'Permavent' Minor gives permanent ventilation with the very minimum of daylight restriction. Fitted with unique simple action clips—no drilling of metal windows necessary.

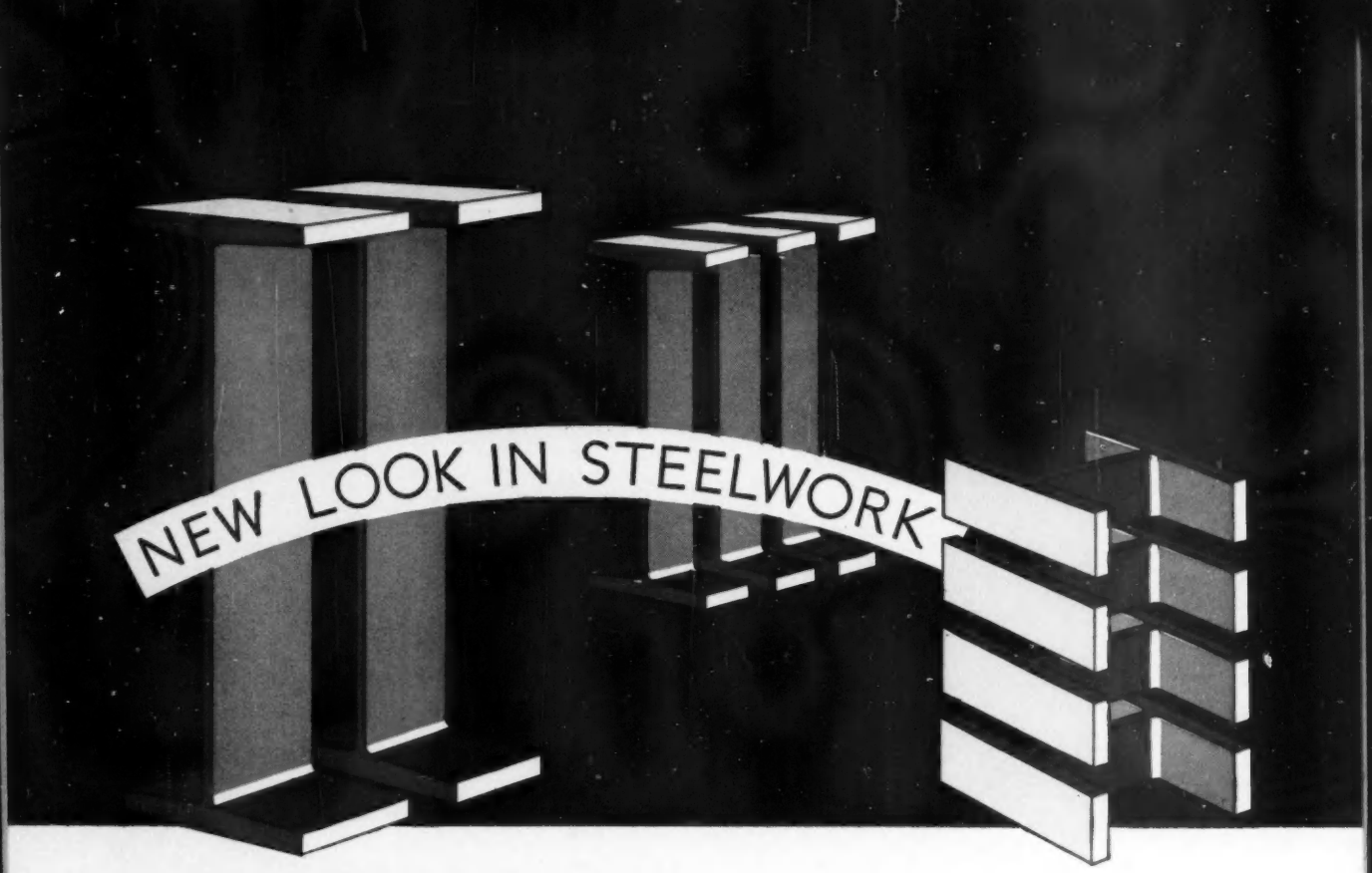
Write for illustrated technical leaflets of the patented 'Permavent' Horizontal Window Ventilators today.

Greenwood-Airvac *ventilation*

GREENWOOD'S AND AIRVAC VENTILATING COMPANY LTD
ESTABLISHED 1879

PATENTEES, DESIGNERS AND MANUFACTURERS OF NATURAL & MECHANICAL VENTILATING EQUIPMENT

BEACON HOUSE, KINGSWAY, LONDON, W.C.2
CHANCERY 8135 (4 lines). 'Grams: 'AIRVAC', LONDON



'UNIVERSAL' SIMPLIFICATION

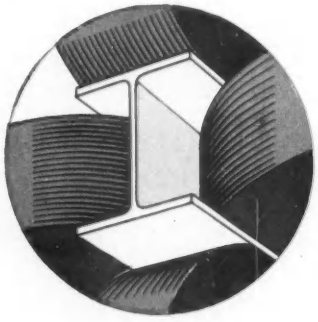
Our Universal Beam mill is now at work rolling beam sections in a wide range, from 36 in. by 16½ in. down to 8 in. by 5¼ in. In planning this new range, the needs of the designer have been studied closely, and each section is available in different weights to suit the loads to be carried.

Designers are already reaping the benefit of simplification —for many of the beams are larger than any hitherto rolled in Europe. They can be used, direct from the mill, for bridge spans which have previously needed expensive fabrication.

We also roll 'H' sections for columns (ranging from 6 in. by 6 in. up to 14 in. by 16 in.) in related 'families' of different weights, so that the increased column-loading at the lower storeys of tall buildings may be met by simple sections without riveted-on flange plates.

The range of British Standard beams, channels and angles continues to be available.

Diagram showing the arrangement of the rolls, which are adjustable to control the flange and web thickness. The adjustment does not appreciably alter the surfaces shown in blue in the upper illustration.



EARLY DELIVERY OF ALL THE NEW SECTIONS

DORMAN LONG

✳ **5'0" sideboard** finished in walnut colour, made by Wrighton & Sons Ltd. The top shelf is of black glass, the right hand top drawer has felt-lined cutlery compartments. The exterior of the fall flap is veneered with alternate strips of light and dark walnut, and the interior is covered with Swedish Perstorp. Retail price £39.

PERSTORP DISTRIBUTORS: **London & Home Counties** C. F. Anderson & Son Ltd. *Harris Wharf, Graham Street, London, N.1.* Geo. E. Gray Ltd., *Joinant House, Eastern Avenue, Ilford, Essex.* Heaton Tabb & Co. Ltd., *Cobbold Road, N.W.10.* **West Country & Wales** Channel Plastics Ltd. *Flowers Hill, Brislington, Bristol 4.* **Midlands & Area** Rudders & Paynes Ltd. *Chester Street, Aston, Birmingham 6.* **N. E. England** A. J. Wares Ltd. *King Street, South Shields.* **N. W. England** Heaton Tabb & Co. Ltd. *55 Bold Street, Liverpool 1.* **Scotland** Nevill Long & Co. (Boards) Ltd. *Rivaldsgreen, Linlithgow, West Lothian.* **N. Ireland** John McNeill Ltd., *109 Corporation Street, Belfast.*

Perstorp is the original plastic laminate and yet the most up-to-date. In a world where the word 'contemporary' is bandied about too glibly Perstorp comes as a refreshing surprise to those furniture manufacturers who know what's what when it comes to colour and finish.

Swedish Perstorp colours and finishes are balanced, assured, clean . . . not glossy yet not matt. The panels are suitable for horizontal and vertical surfaces . . . they are simple to cut, shape and apply, and, once in place, are there for ever; immune to ill-treatment, heat and grease. So, for furniture, specify Perstorp . . . the least expensive of the better plastic laminates.

Swedish **PERSTORP**
THE *ORIGINAL* PLASTIC LAMINATE

Now available in a range of *House and Garden* colours

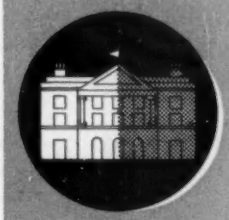
WE'VE KEPT THE FACE OF ENGLAND CLEAN FOR 30 YEARS

Thirty years ago we became one of the first people to specialise in the cleaning and restoration of property. Today we give unequalled, expert attention to buildings of all ages, shapes and sizes, all over England.

Pioneers of every advance in cleaning, treating, repair, renovation and reinstatement we are — today as yesterday — the first and only name for skilled cleaning and restoration.

First to specialise in renovation and restoration

WHY NOT CALL US IN TO LOOK OVER YOUR BUILDING?



HERE'S WHAT WE DO

- Specialist cleaning of stonework, brickwork, rendering and all other surfaces *external and internal.*
- Repair of minor decay and erosion by our plastic stone process.
- Reinstatement in natural stone—and of all other fabrics.
- Preservation of stone and brickwork with clear preservative.
- Removal of all types of paint and coatings.
- Resurfacing by mechanical carborundum disc spinners.
- Removal of slurry from new stone construction.
- Vacuum cleaning and de-greasing of industrial premises, plant, rolling stock, shipping, etc. etc.

For the RIGHT job—remember the RIGHT NAME

THE LONDON STONE CLEANING & RESTORATION CO. LTD.

38 GROSVENOR GARDENS, LONDON, S.W.1 SLO 6141/2/3

The Midland Stone Cleaning & Restoration Co. Ltd. 95 Colmore Row, Birmingham. B'ham Central 7840

The Western Stone Cleaning & Restoration Co. Ltd., 51 Broad Street, Bristol 1. Bristol 26520.

Eastern Stone Cleaning & Restoration Co. Ltd. 35 St. Augustine's, Norwich. Norwich 20835.

Outside, standing up to weather and hard usage,
or inside blending with modern architectural trends—
Rax Roller Leaf Shutter Doors are unequalled for speed,
ease of operation, and years of trouble-free service.
For any opening up to 30′ 0″ high and 200′ 0″ wide.
Hand or Power operated. In steel or aluminium.
Send for literature to Dept. 1

RAX

ROLLER LEAF SHUTTER DOORS
The only fully suspended shutter doors

POTTER RAX LIMITED

Wilton Works, Shepperton Road, London N.1. Telephone: CANonbury 6455 (4 lines). Telegrams: Encraxgat, Nordo, London.
MANCHESTER: New Union Street, 4. Telephone: COLlyhurst 2018.
Branches at BELFAST · DUBLIN · NEWCASTLE-UPON-TYNE · LIVERPOOL · BRISTOL · PLYMOUTH · EXETER

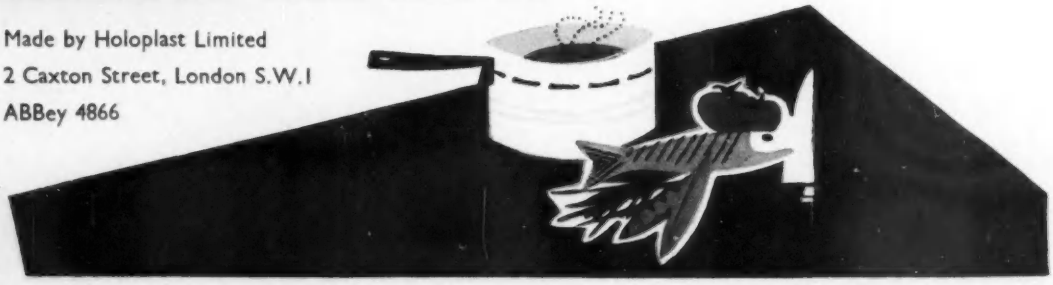
Decorplast gives you **47** exciting colours and patterns

New Decorplast makes working-surfaces and walls really *glow* with colour—sets a new standard in top-class melamine-faced laminated plastics. It's as tough as it's beautiful. Doesn't easily crack, chip, stain or fade. It's cleaned with a damp cloth—because dirt cannot stick. Boiling water, grease, spirits, dilute acids and heat up to 310 F leave new Decorplast bright and colourful as the day it was made.

The whole new range, now in sheets 9′ x 4′ as well as 8′ x 4′, thickness $\frac{1}{16}$″, is *always available* in matt and gloss finishes—plus new wood veneers that really do look like wood! Write to the address below and ask for facsimile Colour Chart and list of Distributors.

Decorplast LAMINATED PLASTIC

Made by Holoplast Limited
SALES OFFICE 2 Caxton Street, London S.W.1
TELEPHONE ABBey 4866



Reed PAPER GROUP

YOU GET SO MUCH MORE FOR YOUR MONEY . . .

* NO 'MIXTURE' PETROL AND OIL IN SEPARATE TANKS
* NO AIR CONTROL OR 'STRANGLER'
* AUTOMATIC LUBRICATION
* POSITIVE CARBURATION ENSURES INSTANT STARTING - CONSTANT RUNNING
* FIRST RATE AFTER SALES SERVICE

. . . with a JOHNSON MAXTAMP POWER RAMMER

Ask for demonstration

JOHNSON QUALITY PAYS

Sole U.K. Distributors for A.B.G. road making Machinery.

C. H. JOHNSON (MACHINERY) LIMITED,
STOCKPORT, CHESHIRE
Telephone : Stockport 2642/5. Telex 66-297.
Telegrams : "Machinery" Stockport.

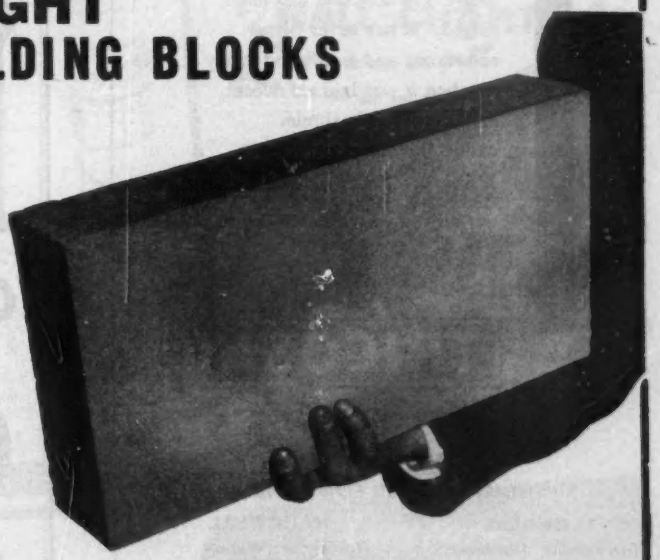
LONDON SALES & SERVICE DEPOT : 38/44 Lower Richmond Road, London, S.W.14.
Telephone : PROspect 7671.
SCOTTISH SALES & SERVICE DEPOT : 55 Arrowsmith Avenue, Glasgow, W.3.
Telephone : Scotstoun 6933.

CELL CONCRETE LIGHTWEIGHT INSULATING & BUILDING BLOCKS

for

PARTITIONS AND CAVITY WALLS

Dimensions...	*9" × 18" (nominal)*
Thickness ...	*2", 2½", 3", 3½", 4", 4½", 5", 6", 7", 8", 9"*
Density ...	*50 lbs./cu.ft.*
Crushing Strength...	*750 lbs./sq.in.*
Moisture Movement ...	*.03%*
Drying Shrinkage ...	*.04%*
Thermal Conductivity K ...	*1.2 BTU/sq. ft./hr./F°/inch*
Fire Resistance ...	*A 4" block wall unplastered was tested at Fire Research Station and satisfied all requirements of B.S. 476: and part 1 for 4 hours.*



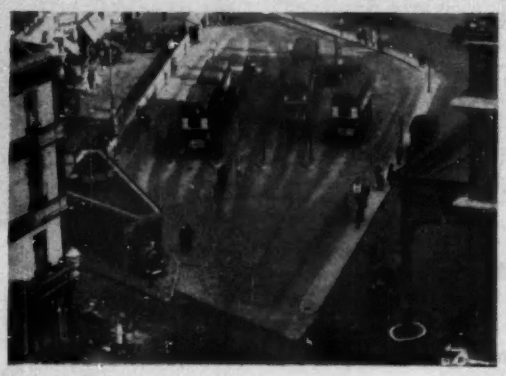
TEL. SLOane 0324

CELCON LTD.

UNIVERSAL HOUSE, 60 BUCKINGHAM PALACE ROAD, S.W.1
FACTORY - RECTORY ROAD, GRAYS, ESSEX.

A TRICOSAL TIME TESTED JOB

Omnibus Station
Victoria Railway Station
London



Nearly six years ago, when they re-laid the forecourt of Victoria Station, Tricosal was integrated with the concrete to densify it and to increase its resistance to wear. The concrete was left ridged. It has never been resurfaced and is as good today as when it was laid. Tricosal has been used in similar major undertakings for over 30 years.

INTEGRAL CEMENT
TRICOSAL
HARDENER PROOFER

An Osal Product
INDISPENSABLE FOR CEMENT WORK

FLOROSAL
for Surface Hardening and Protection of Concrete, Stone and Cement.

NEOCOSAL
for Surface Waterproofing of Brick, Concrete and Stone.

Send for Information Leaflet No. 1

A. A. BYRD & CO. LTD., Dept. B.,
210 Terminal House, Grosvenor Gardens, London, S.W.1
Phone: SLOane 5236 *Grams: Byrdicem, Wesphone, London*
Works: Basingstoke, Hants.

THE MULTIBLOC MINOR

See it at GREENFORD ON STAND 73 (Row F)

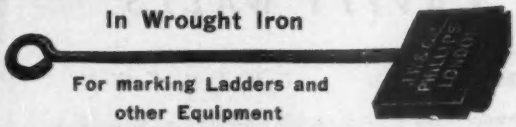
A multiple-production block machine which makes solid or cavity building blocks, or bricks, at low capital and labour cost as and when wanted. Output: 200 18" x 9" x 4" blocks per hour and other sizes in proportion.
Models for other outputs also on show.

ALAN R. DAVIES
LIMITED
20 WHITELADIES ROAD, BRISTOL 8. Tel: 38418/9.

SMARTER NAME BOARDS AT LESS COST BY USING PHILLIPS' ALUMINIUM LETTERS

Letters for all purposes in Aluminium, Bronze, Sheet Metal or Wood

BRANDING IRONS
In Wrought Iron



For marking Ladders and other Equipment

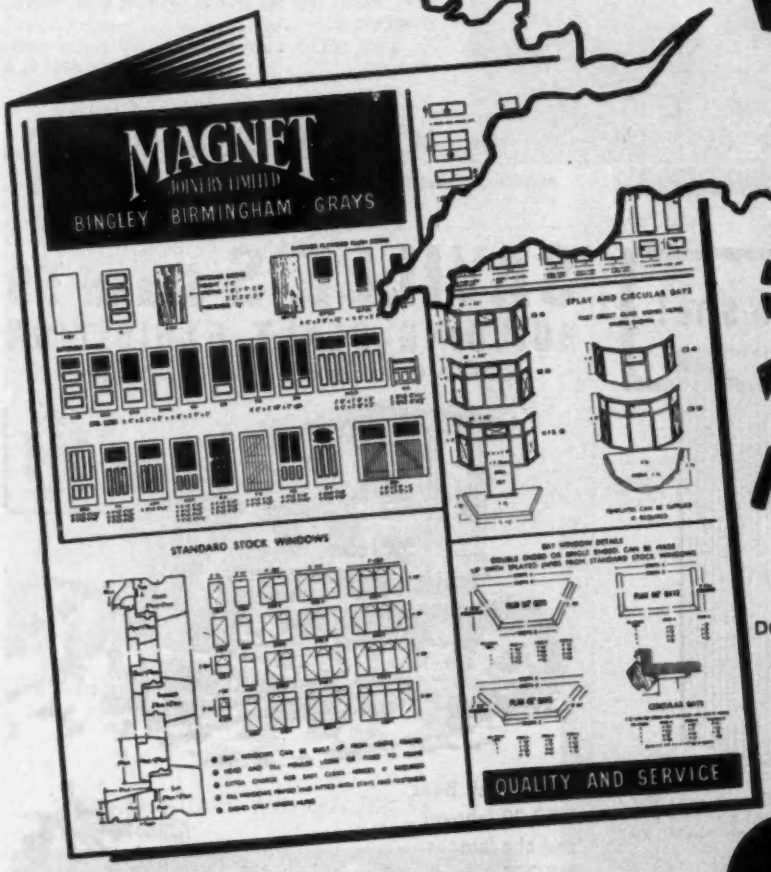
REVERSE LETTERS AND PLATES
For use in Moulds for Concrete Products, Brick Moulds, etc.

STENCILS In Zinc, Brass, Copper

J.W. & C.J. PHILLIPS LTD.
POMEROY ST., NEW CROSS, LONDON, S.E.14.
TELEPHONE: NEW CROSS 6203 AND 1677.

MAGNET can deliver DOORS and WINDOWS anywhere in the country· from ample stocks at these three centres

MAGNET Standard Joinery Saves time, cuts delays and reduces costs on building sites throughout the country.



The MAGNET WALL CHART

FREE ON REQUEST!

DOORS · DOOR FRAMES · FRENCH FRAMES
WINGS AND VESTIBULE FRAMES
STANDARD AND STOCK WINDOWS
SPLAYS AND CIRCULAR BAYS
BAY WINDOW DETAILS

Contact MAGNET JOINERY LIMITED

FOR STANDARD DOORS AND WINDOWS

Whitley Street · Bingley · **YORKSHIRE** *Phone:* Bingley 4401 (5 lines)
London Road · Grays · **ESSEX** *Phone:* Grays Thurrock 2077 (5 lines)
Love Lane · Aston · **BIRMINGHAM** *Phone:* Aston Cross 3291 (3 lines)

KEEP YOUR BRICKLAYERS WORKING - NOT WAITING - with

WILD

BUILDERS ELEVATORS

STANDARD MODEL. LIFTS 2,000 BRICKS (or 4,000 Slates or Tiles) PER HOUR. Designed for the larger site. Worked by two men, it has the capacity of sixteen men. Wide tread wheels ensure easy mobility over rough ground. For heights from 4 ft. 2 ins. to 22 ft. Powered by easy starting 2½ h.p. air-cooled petrol engine. **PRICE £329 0. 0.**

PORTABLE MODEL. LIFTS 1,500 BRICKS OR TILES PER HOUR. Quickly erected on lorry or ground, and handled by two men, the 'Wild' Portable Builders' Elevator will raise 1,500 bricks or tiles per hour—six times faster than by hand. It saves double handling and reduces breakages to a minimum. Easily loaded into light van for moving from site to site. Operates from 2 ft. 6 ins. to 22 ft. Powered by 1 h.p. air-cooled petrol engine. **PRICE £189 0. 0.**

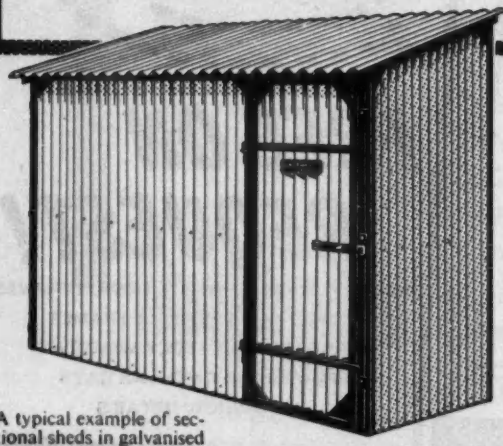
30 FT. MODEL (not illustrated). WHERE A HIGHER LIFT IS REQUIRED. Carrying capacity as standard model, *i.e.*, 2,000 bricks, 4,000 slates or 1,000 breeze blocks per hour. **PRICE £492 0. 0.**

Write NOW for fully illustrated literature.

M. B. WILD & CO. LTD.,

ARGYLE ST., HECHELLS, BIRMINGHAM 7. Telephone: EAST 2041-7.

HERE'S THE BEST SHED ON SITE!



A typical example of sectional sheds in galvanised corrugated sheets on angle steel framing available in a variety of sizes to suit every purpose. The strongest, most portable and easily erected building on the market today. Send NOW for catalogue.

See us on STAND 48

JOHN ELWELL Ltd

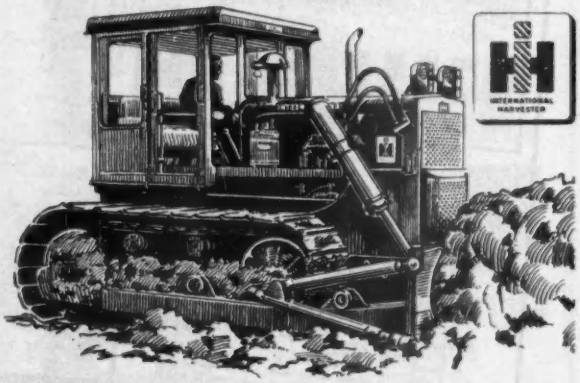
ROOD END IRONWORKS · OLDBURY · BIRMINGHAM

'Phone: BROadwell 1415-6-7-8 'Grams: "Sections", Oldbury

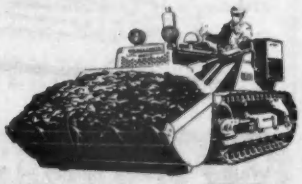
SAVILLE'S Stand 59

BUILDING PLANT EXHIBITION

GREENFORD Middx. 10th to 17th June



The British Built BTD 20 (above) and the famous DROTT skid shovel will be on show and demonstrated.



SAVILLE (TRACTORS) LTD.

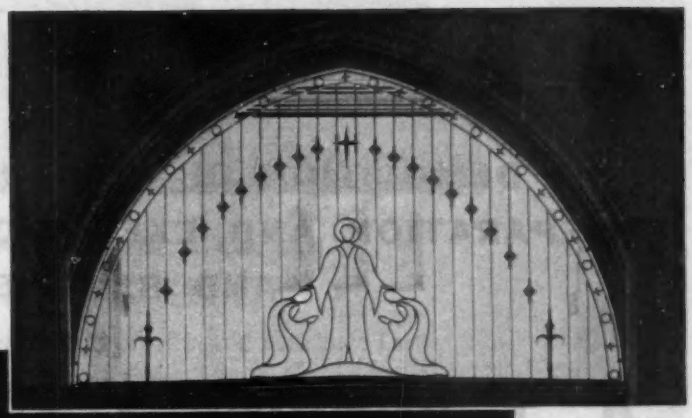
STRATFORD-ON-AVON · LONDON · CARDIFF
BELFAST DUBLIN

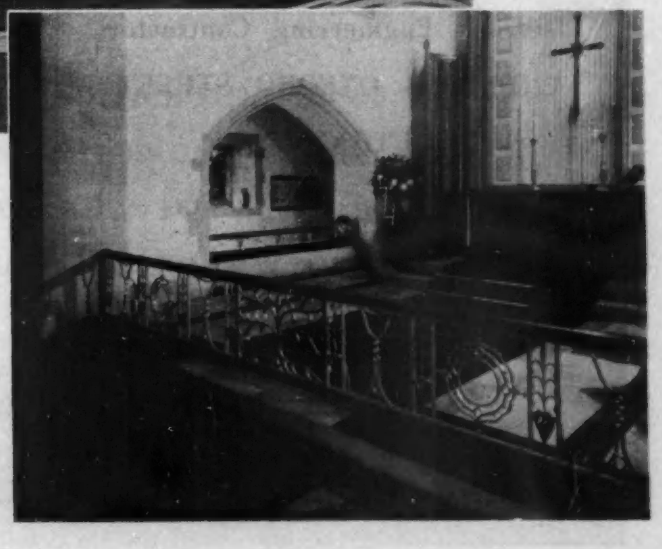
St. Mildred's Church, Addiscombe

ROOD SCREEN in arch opening.
Made in Bright Drawn Steel.

ORNAMENTAL WROUGHT METAL SCREEN for the organ front.

COMMUNION RAIL.
Metal work of Bright Drawn Steel fitted with Polished Oak Handrail and Footrail.





To the special design of the architect
R. TATAM, Esq., A.R.I.B.A.

MANUFACTURED AND ERECTED BY

Clark, Hunt & Co. Ltd.
Southbury Road
Enfield

Telephone
HOWARD 1421

DEPARTMENT STORE, QUEENSWAY, SOUTHAMPTON
for
EDWIN JONES & CO. LTD.

ARCHITECTS: HEALING & OVERBURY
Illustrated in this Issue

DEMOLITION OF EXISTING STRUCTURES
PREPARATION AND EXECUTION OF FOUNDATIONS AND BASEMENTS
by

A. J. DUNNING & SONS (WEYHILL) LTD.
Weyhill, Andover, Hants.
Building & Civil Engineering Contractors

Consulting Engineer:
R. H. THOMASON, ESQ., M.I. Struct. E.
Cobham, Surrey.

Architect:
HEALING & OVERBURY,
Cheltenham, Glos.

Complete
Electrical Installation
by
ALLDRIDGE
Electrical Engineering Contractors
12/13/14/15 OXFORD STREET
SOUTHAMPTON

Telephone 20364 (3 lines

ALL CLASSES OF ELECTRICAL WORK EXECUTED
THROUGHOUT THE UNITED KINGDOM
AND OVERSEAS

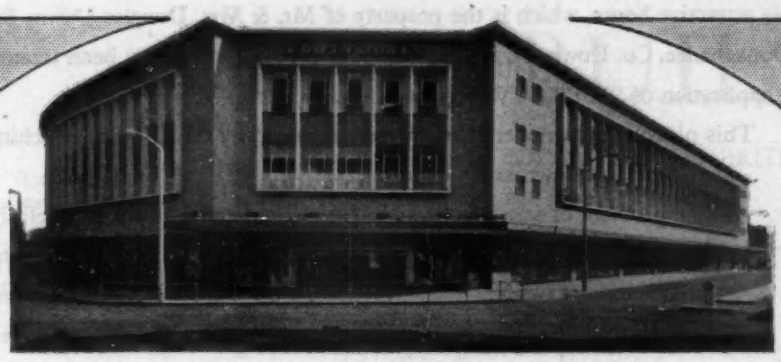
LONDON OFFICE: 51, VICTORIA STREET, S.W.1.

New Store for
EDWIN JONES & CO., LTD.,
Southampton
Architects: Messrs. Healing & Overbury

MORE THAN
3 ACRES
of
RAPID PLASTER TILES
FORM THE SUSPENDED
DEMOUNTABLE CEILINGS
SUPPLIED AND FIXED
BY
CLARK & FENN
LTD.

16 OLD TOWN . LONDON S.W.4
Telephone MACaulay 2455-9

who were also responsible for the ornamental plasterwork on this important project.



Messrs. EDWIN JONES & Co. Ltd.

Chartered Architects: Messrs. Healing & Overbury
Store Architect: Allan C. Parnell, A.R.I.B.A.

The construction of the entire Shopfronts and Entrance Doors, Canopy Facings, Escalator Casings and the Interior Equipment for all the various departments housed in approx. one acre of floor space of the Ground Floor, Model Furniture Rooms on the Second Floor and the "Queen's" Restaurant of this "Wonderful new Store of the South" was carried out by

FREDK SAGE & CO LTD

Specialist Craftsmen in Metal and Wood

FOR

BANKS, BOARDROOMS & OFFICE FURNISHING

LIFT CARS & ESCALATOR CASINGS

SHOPFRONTS & INTERIOR WORK FOR ALL TRADES

CHURCH & ECCLESIASTICAL CONTRACTORS

Head Office and Showrooms *Telephone: Holborn 7822*
HOLBORN HALL · GRAY'S INN ROAD · LONDON · W.C.1
and at: 136 RENFIELD STREET, GLASGOW Telephone: DOUGLAS 0346

This attractive house, which is the property of Mr. & Mrs. Douglas Dawn, Ballywilliam, Donaghadee, Co. Down, N. Ireland, is of concrete brick and has been treated with a two coat application of 'PUDLO' Waterproof Cement Paint.

This pleasing and modern design was drawn up by the Diocesan Architect for the Church of Ireland for Down and Connor.

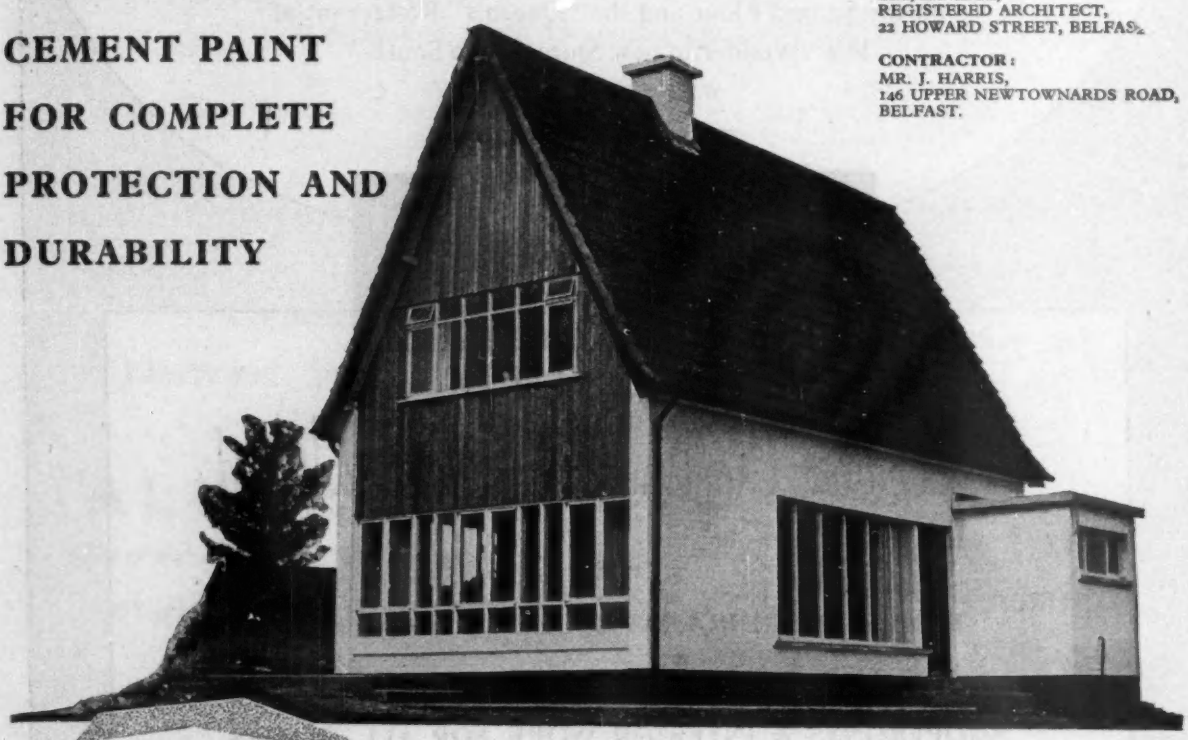
The problem of satisfactory maintenance and protection was carefully considered so as to enhance the attractive appearance and yet preserve the structure. 'PUDLO' Waterproof Cement Paint was specified for the work as it contains the famous 'PUDLO' Cement Waterproofing Powder and guarantees the protection of outside surfaces against all climatic conditions.

'PUDLO' Waterproof Cement Paint is available in an attractive range of colours, and contains a surface active agent which ensures a ready mix with water, good bonding and spreading properties, thus ensuring an easy even spread.

'PUDLO' WATERPROOF CEMENT PAINT FOR COMPLETE PROTECTION AND DURABILITY

ARCHITECT:
DENNIS O'D. HANNA ESQ., B.A., L.R.I.B.A., REGISTERED ARCHITECT, 22 HOWARD STREET, BELFAST.

CONTRACTOR:
MR. J. HARRIS, 146 UPPER NEWTOWNARDS ROAD, BELFAST.



'PUDLO'

Get full particulars of 'Pudlo' Cement Paint NOW—available on request.

OTHER 'PUDLO' PRODUCTS INCLUDE:

Cement Waterproofing Powder
Cement Paint Primer
Cement Bonder
Frost Protector/Rapid Hardener
Mortar Plasticiser
Plaster Bonder
Liquid Cement Additive
External Water Repellent
Cement Hardener/Dust Proofer
'Feusol' Fire Cement

Sole Proprietors and Manufacturers:

KERNER-GREENWOOD & CO. LTD. *KING'S LYNN, NORFOLK. TELEPHONE: KING'S LYNN 2293*

THE BUILDER

Incorporating ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVI June 12th 1959 No. 6063

PUBLISHED FROM 'THE BUILDER' HOUSE, Catherine-street, Aldwych, London, WC2. *Telephones:* Temple Bar 6251-2-3-4. *Annual subscription:* £4; for six months £2. Single copies (including back numbers up to 12 months old) 1s. 6d. (post paid 2s.). *Indices* are produced in July and January each year; copies free on application.

NEWS SUMMARY

ARTHUR KENYON continues his wanderings at large, this week at Coventry. p. 1030

'THE BUILDER-VENNING' CHART shows that the cost of building at 365 points (1939=100) is the same as at June, 1958. p. 1038

WIDESPREAD SHORTAGE OF BRICKS is referred to by the Joint Consultative Committee in its current report. p. 1042

INTERESTING DEVELOPMENTS in the manufacture of grooved lightweight concrete blocks are noted. p. 1046

GLASGOW CORPORATION is to divert 20 per cent of all its building work to the Direct Labour department. p. 1054

PRINCIPAL CONTENTS

ILLUSTRATIONS

DEPARTMENT STORE, SOUTHAMPTON: By Healing and Overbury .. 1033

ST. MILDRED'S CHURCH, ADDISCOMBE: Improvements: By E. C. P. Monson .. 1040

ARTICLES

Architect At Large in the Midlands—1. By Arthur W. Kenyon, CBE .. 1030

Cost of Building: 'The Builder-Venning' Chart .. 1038

Joint Consultation in Building: JCC Discuss Problems .. 1042

In Parliament .. 1044

Development of Grooved Lightweight Concrete Blocks: By T. L. Carhart-Harris 1046

Everyday Things: LXXXIV .. 1048

Standards of School Building: MoE Decisions .. 1049

Australia's Tallest Building: Sydney Scheme 1050

Warm Floor Heating and Wood Floors .. 1051

Increasing Managerial Efficiency .. 1052

Technical Review .. 1053

Overseas Building .. 1054

The Scottish Builder .. 1054

Future Construction .. 1055

Prices of Materials: Current Changes .. 1056

THE SAME MIXTURE AS BEFORE

THE Ministry of Education has recently issued revised regulations for school building projects, and probably the first thing which architects and contractors experienced in this field look through the circulars to find is whether the Ministry allows any alteration in the cost limits. These are to remain at the figures of £154 and £264 per cost place for primary and secondary schools respectively, qualified by the statement that 'there is ample evidence that at the present time schools which satisfy the requirements of the building regulations and which are of good quality construction and finish can still be built within the current limits of net cost per place.'

That this continues to be the position is certainly a case of good fortune, if not for congratulation, for as is well known the field of school building is one of the few cases where costs have held their own in relation to the value of the building provided, even though building costs have risen during the successive years.

Contractors experienced in this field of work have commented from time to time that the reason for the low prices is often the diminished volume of work available and, hence, the closer competitive tendering allied, perhaps, to higher output in terms of labour employed as a result of a certain amount of unemployment in the industry, and the utilisation of mechanical plant, work study, and the like.

We have heard many times that the building industry operates on a comparatively low profit margin, compared with other industries, and whilst the statement of the Ministry of Education might be satisfactory to us as tax payers it is more open to question whether it is healthy for the industry as a whole. One cannot help feeling when the effects of the Government policy in determining a greater capital expenditure come to be felt at the time of tendering, it is not unlikely that some upward adjustments of cost limits will have to be made. Although the architects have been able to reduce the floor area, utilise space two or three times over, and reduce surface finishes, floor finishes and exterior treatments to the minimum, the question of the long-term maintenance of these buildings, if costs are reduced further, is one which must be worrying education authorities over the country as a whole, particularly bearing in mind the fact that allocations for education now come out of the Block Grant.

All will agree that the changes in the circulars, although minor, are based on experience of the working of the regulations over the years, and they result in the disappearance of certain educational jargon like 'form entry.' They permit greater flexibility particularly in the field of secondary schools, in allowing for finer adjustment of the teaching areas, which is probably brought about by the fact that, the main bulk of the school building having been completed, the programme for the modernisation of existing schools is obviously a problem which must now be tackled.

In primary schools, the same minimum teaching areas will be required for a given number of pupils, but changes to the area of the Assembly Halls and the re-introduction of the requirement of a hall for infant schools with 100 or more pupils will certainly be welcomed by head teachers who have been very critical of the omission of what they consider to be an essential requirement.

Dealing with the cost limits of the school, the Minister suggests these should apply to the 1960-61 programme, although education authorities can apply them to earlier projects if they wish. The adjustments whereby the proportion of pupils over the age of 15 years is catered for shows that the Minister has softened his heart somewhat in providing for this vital element.

The very vexed question of building schools in stages is not dealt with in the new circular. Although allowances are still made for building in instalments, the Ministry has not increased the allowance for the first stage to that which those experienced in these problems find so essential.

Altogether, the new information is the same mixture as before, with the addition of neither sugar nor gall.

Notes of the Week

Selling a House

MR. D. NOEL DRAYCOTT, a *Times* reader who, according to himself, is purchasing a semi-detached house of about £2,500 in the neighbourhood of London, has been making some investigation into the meaning of phrases used by builders and house-agents to describe their 'desirable residences.' Here are some results of his research:

'Embodies many contemporary features' —windows slightly larger than last year's version and the picture rail is dispensed with.

'Fully-fitted kitchen'—plenty of shelves and cupboards but no space for the adequate siting of washing machine, refrigerator and other appliances.

'Attractively laid-out estate'—the builder is not quite sure of the direction from which the sun shines but compromises by facing a few houses in all directions.

'Architect-design' — a most convenient phrase . . . used to describe an Edwardian cottage type and a multitude of designs regardless of surroundings.

'It appears,' complains this correspondent, 'that most speculative builders have not seen any issue of an architectural magazine since before the last war, and the large amount of research on new building methods has been merely for the benefit of a few enlightened councils.'

* * *

BRUSHING ASIDE the undeserved suggestion that the cure for builders' bungalese lies in a closer perusal of the technical Press, one wonders whether Mr. Draycott is banging on the right door. The benefits of research are known to quite a number of the larger speculative house-builders, many of whom put them to good use.

US ARCHITECTURAL AWARD

The Sidney Myer Music Bowl, in Melbourne, which has received the R. S. Reynolds Memorial Competition award, administered by the American Institute of Architects. A prize of 25,000 dollars goes to the winning architects, Yuncken, Freeman Brothers, Griffiths and Simpson, of Melbourne. Details of the award were given in our last issue (P.1002).

'The Builder' Cost-of-Building Chart

The annual Cost-of-Building Chart, prepared for *The Builder* by Messrs. H. J. Venning & Partners, FRICS, appears in this issue. Copies, reprinted on stout card, are now available from The Publisher, *The Builder*, 4 Catherine-street, Aldwych, WC2, price 1s. 3d. (1s. 6d. post paid). Orders for 6 or more are post free. *Cash must accompany order.*

The Printing Dispute and 'The Builder'

By reason of the current dispute in the printing trade, this and subsequent issues of *The Builder*, in common with all periodicals, are affected in size. Every effort will be made to continue to give the maximum service to readers and to advertisers whose indulgence is sought in a situation which is not within our control.

Human nature being what it is, house-builders and house-agents know perfectly well that most people indulge in what O. Henry calls 'little pork-chop and onions dreams' when it comes to buying a house; and that chromium plate in the bathroom and picture-frame windows speak louder than any amount of talk about insulated roofs or a decent bit of bricklaying. Being, for the most part, an honest and sensible person, the successful house-builder is he who, making a proper use of an architect's services, turns out a sound job in which a surprising amount of applied research can be found, but who does not dissuade his sales side from intoning the grand old patter about 'contemporary features' and 'veritable suntrap style,' without which the average arts-shy Englishman finds it hard to feel at home.

* * *

IN ONE THING though, Mr. Draycott is right—it is time the patter changed; perhaps he would care to suggest some alternative phrases suitable to our day. And if at the same time he would take a pot-shot at some other time-honoured agents' phrases such as 'blue-printed for satisfaction,' 'favourite village' and 'designed for gracious living' he would earn our gratitude at least.

Architecture at the RBA

IT IS excellent that the Royal Society of British Artists has continued last year's innovation of an Architecture Room for this year's 231st Exhibition, at its Suffolk-street Galleries until June 27, writes Basil Marriott. Too many architects pretend that they haven't time for art exhibitions, and one suspects that most painters and sculptors reciprocate. For both, as well as the interested layman (if such still exists), the combination is invaluable.

Again the RBA's selection is perhaps more notable for the variety of presentation media—models, photographs plain and coloured and the more conventional rendered perspectives—than for a universally high level of architecture. May I suggest that the draughtsman's name might therefore be included in the catalogue, as it ought to be in the Royal Academy's; and in this connexion particularly mention Peter Sainsbury's drawing of Norman & Dawbarn's Makerere College Library.

* * *

THE CENTREPIECE of the room, where many exhibits are already familiar through the professional publications, is the model of the Jinnah Mausoleum, Karachi, by Raglan Squire & Partners. Denis Clarke Hall's St. Michael's Church, Welwyn Garden City, is a welcome reminder of an excellent design, though both model *and* photographs of it seem superfluous. I very much liked the framed and glazed 'picture' block-plan of James Cubitt & Partners' proposed University of Nigeria. A highly evocative photograph is of the Architects' Co-Partnership's Housing for the Nigerian Ports Authority, and other representative projects are their Birley Grammar School Science Wing and Norman & Dawbarn's School at West Drayton.

* * *

THERE are many other items I would like to have mentioned, and must do so in the case of Edward Ihnatowicz's 'Bird' —a piece of wiry sculpture giving welcome punctuation: but this note is primarily to endorse what I hope is to be a continuing RBA policy of regarding architects, properly, as artists and taking them under its wing.

Chelsea Flower Show

ARCHITECTS have not got a good reputation for green fingers, nor for leaving their buildings in a pleasant garden. A sea of concrete or a desert of rubble are common descriptions. However, an increasing number of architects in this country are showing interest in landscape architecture.

When Humphry Repton, towards the end of the 18th century, described himself as a professional landscape gardener, thus first using the word 'landscape,' it meant a very different thing to what it does today. The opportunities for landscape architecture are extremely few but for garden architecture are many and it is as garden architect that Gunther Heydenreich, of Hanover, so describes himself. Herr Heydenreich has been responsible for the most brilliant design display seen at Chelsea for a considerable number of years, in his work in connection with the exhibit from a group of German growers.

* * *

EXHIBITORS in the garden layout section included only seven architects or architectural offices and once again models of London's Park Lane improvement scheme were shown. Of drawings and photographs, that showing Miss Sylvia Crowe's essay in anti-subtopia at Barnet, and the brave attempts of Walsall parks department and of the LCC parks department to provide suitable settings for buildings, besides amenity areas in badly planned districts, were noted.

A·SESSOR HAD NEWLY QUALIFIED

AS AN ARCHITECT, & HE AND HIS FRIENDS GOT

A LOT OF PLEASURE

CRITICISING THE SENIOR MEMBERS

OF THE PROFESSION & SHOUTING

... IF YOU WANT TO GET A HAT GET A HEAD ...

SOMEHOW HE

NEVER GOT ANY JOBS

THEN ONE DAY HE SAID

WHICH HE THOUGHT WAS ORIGINAL

BUT HE STILL DIDN'T

GET ANY JOBS, SO

HE GOT ANOTHER HAT, & GOT

PLENTY OF JOBS

AND PEOPLE THOUGHT HE HAD JUDGEMENT AND MADE HIM A

PROFESSOR. BUT IT WASN'T JUDGEMENT, ONLY DIPLOMACY.

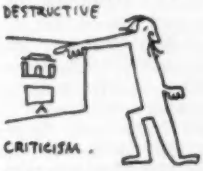
ONE DAY

SAID A STUDENT

HE WENT AWAY AND

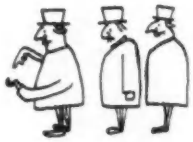
THOUGHT ABOUT IT, AND CAME BACK BACK

AND STARTED TO GIVE DESTRUCTIVE



CRITICISM.

EVERYONE THOUGHT HIS JUDGEMENT HAD MATURED, & HE GOT



EVEN BIGGER JOBS

WHICH HE HANDED OVER TO HIS STAFF BECAUSE HE HADN'T GOT

TIME TO DO THEM HIMSELF BECAUSE

HE HAD BECOME A

PROFESSIONAL ASSESSOR

AND FLEW AROUND THE WORLD

ASSESSING THINGS

ONE DAY AT AN IMPORTANT EXHIBITION HE SAW A DESIGN THAT

HIS OWN OFFICE HAD PRODUCED

BUT HE DID NOT KNOW THIS AND GAVE IT HIS

MOST DEVASTATING CRITICISM

AND WAITED FOR THE

APPLAUSE — WHICH DIDN'T COME

AND PEOPLE SAID

... is he really so good ...

& WERE VERY WORRIED

THE YOUNG PEOPLE CALLED HIM

HE STOPPED GETTING

JOBS

& AS FOR BEING A PROFESSOR

HE WAS DUE TO RETIRE ANYWAY

BUT THEY HAD A PICTURE OF HIM HUNG IN THE TUTORS COMMON ROOM,

SO IT WAS ALRIGHT REALLY ...

A CAUTIONARY TALE. By John Rae

AN ARCHITECT AT LARGE IN THE MIDLANDS

1—On the Way to Coventry

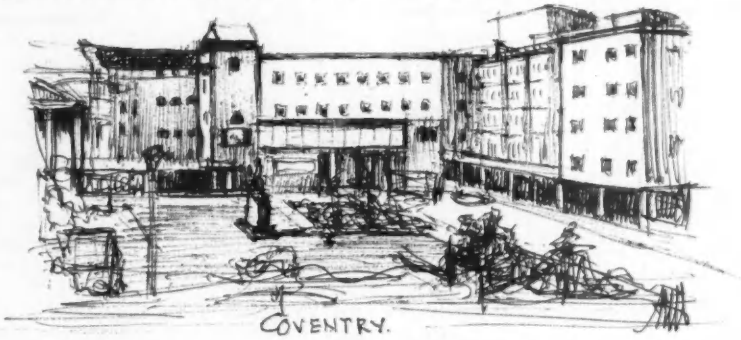
By Arthur W. Kenyon, CBE, FRIBA

WHEN, some weeks ago, idle fancy and the first touch of Spring tempted me away from my drawing board to spend time calling on my country colleagues in the South, I had little more than an inquiring mind and good intentions to guide my journey. As I went on my way, however, I found increasing interest in noting the attitude of architects and builders towards the work they do and the people for whom they do it, and not least towards the profession and industry which they serve. I found a diversity of views, as one would expect, but I also observed recurring themes of interest, and as I moved from place to place I thought I began to see a basic pattern in the lives of people who devote their time and energies to raising new buildings.

But serious as my conversations were and enlightening as my colleagues endeavoured to be in introducing me to their work, I could not pretend that my impressions from a few days' intensive visiting could be anything but superficial, and I could not presume to have arrived at any profound conclusions after such a casual round of visits. Indeed, my whole idea was to travel hopefully rather than to arrive, but subsequent reflection has caused me to ponder on two aspects of what I found, both of which have given me food for much quiet thought and pleasure. One was that nowhere did I find indifference to the job in hand, and the second, that I did not leave one encounter, even the briefest, without feeling that there had been mutual profit and pleasure in it.

Lord Attlee, in his great wisdom, said the other day that while he was all for summit conferences he sometimes thought a bit of moving about in the foothills among the smaller powers might be equally useful, and it is just this foothill movement that I feel I would like to promote. I like the idea of people meeting together to talk seriously about their work, without agendas and without axes to grind; and in the faith that good can come out of such meetings, I determined to set off on my journeyings once more, this time nosing North instead of South from Marble Arch.

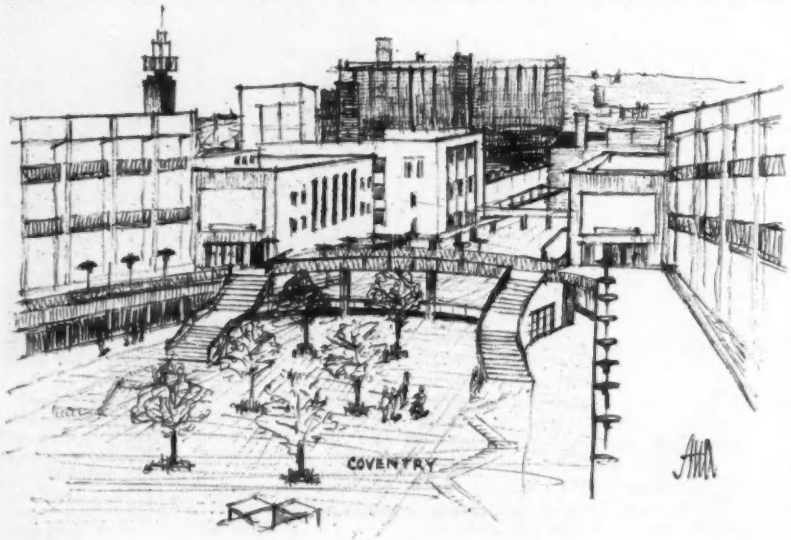
I had had my taste of rural England with market towns, medieval buildings and country practices. Now for Coventry with its motor car industry, its twentieth-century cathedral and modern town planning. Our way took us through the man-made country of England. Nature had done her very best with early blossom and stretches of green pasture, but the designers of indifferent buildings with which the route is littered had taken no account of nature's best. Endless streams of traffic lined the roads, and as we stuck in a mighty traffic jam in the ancient town of St. Albans I thought about the Romans who had first cut these ways through the countryside of Britain.



Through Dunstable and along Watling Street to Stony Stratford and Towcester the road heads dead straight for where the ancient Romans intended it to go, and it is still a marvel to be wondered at that they cut their way through the forests of England to give us roads which we still use today.

The old coaching inn known as the 'Dun Cow' at Dunchurch provides lunch for eight shillings and sixpence, a bright cocktail bar, and artificial flowers carefully arranged in the C. Spry convention. I thought sadly of the bunches of country flowers which adorned the inns of my youth where a cocktail was something to do with poultry. In other country hotels which I visited I even found studied floral effects in which artificial and real blooms had been carefully mingled.

But if hostelry was to be my study, Coventry had something all ready and waiting to show me, for this was to be my first visit to the Hotel Leofric, and the Hotel Leofric is certainly something in hotels by our standards. It is unfortunate that the entrances are poor, for otherwise all is perfection. It is difficult for a motorist to find where he can pull in his car, and when he does eventually step out of it he must mount a staircase or go by lift to reach the reception desk. Now I am told by those who know me best that I only have to appear in sight of a lift of any make for it to display its full range of idiosyncrasies. The lifts at the Hotel Leofric are very magnificent indeed, but we did have to go up and down several times in a fruitless endeavour to arrive at the third floor, until even the lift boy gave in and suggested we tried another—which only goes to prove that you must always order lifts in pairs.



The Hotel Leofric, named after Lady Godiva's husband, designed by W. S. HATTRELL and Partners in collaboration with the architect's department of Ind, Coope & Allsopp and built by Sir ROBERT MCALPINE & SONS in fourteen months, has the highest marks I can give it for a first-class hotel of distinction. It reminded me very much of some of the fine modern hotels I have seen in Naples. England has so far been parsimonious in the design and equipment of hotels, and this hotel in a provincial town may well have set a new standard. It could even become the prototype, since all too many of us, alas, are followers and copyists where others have led the way, rather than seekers after new solutions. The passing thought occurred to me here that if hotels must inevitably use ash trays which advertise brands of cigarettes and beer, is it not time the Council of Industrial Design took a hand and induced the advertisers to abandon the ugly objects which at present litter hotel bars and well-set dining tables? Even at the Leofric!

But I had not come to Coventry to study ash trays. I had come to look at Coventry and what I saw took me by surprise. I had heard and read about Coventry since the war, and I had seen illustrations of the redevelopment of the town, but nothing I had heard or read or seen had conveyed to

me the revolution which has taken place there. I was both delighted and excited by what I saw. Though the architecture is modern, it is also medieval in character, and I found the precincts reminiscent of the London squares. The experiment in Coventry requires everyone's co-operation, but unfortunately the process of education is slow, and on a Saturday afternoon I found the shopping precinct litter-strewn and nobody appeared to care. But no doubt in time the citizens of Coventry will learn to take a proper pride in their new city. The whole place to me was fascinating and scintillating, grouped together as it is in a tightly-knit whole. It will certainly have an influence on modern town planning, and full credit must be given to DONALD GIBSON for taking the brunt of the early pioneering and for the success it has achieved.

ARTHUR LING, the City Architect, had been most co-operative in making arrangements for me to see as much as possible and meet as many people as possible in a short space of time, and MR. W. KRETCHMER, an enthusiast on his staff, very kindly gave up his Sunday morning to showing me not only the new part of the town but also the new communities outside, with houses, shopping centres, churches, schools, working men's clubs, etc. These follow very much the pattern of the neighbourhood units in our new towns. They are quite a distance from the centre of the town, with a very wide stretch of green belt lying between. The people who live in these areas work in the large factories on the fringe of the town.

I was interested to learn from Mr. Kretchmer that the silks and ribbons for which Coventry was once famous used to be made on the top floor of the three-storey houses, some of which are still to be seen in the town. This floor was made into one room running the full depth of the house, the family working in it and living under the shop instead of over it in the more familiar idiom. At a later period these rooms were fitted up as workshops where bicycle and watch parts were made. The houses were built in terraces and one of the most famous is now run by J. J. Cash Ltd., in Cash's Lane. It has no particular architectural style or merit, yet it has dignity and tidy simplicity. It might well have been designed by one of the railway engineers, for it has a brick gothic flavour so often adopted in those days by the engineer/architect whose work I suspect we shall begin to admire as time goes by. I must not forget to say that these buildings were known as 'Top Shops.'

Informal Meeting

I can think of no pleasanter way of passing an evening after a day in Coventry than by driving out to Warwick to be entertained by Arthur Ling and his wife, who had kindly and most considerately invited two local architects in to meet me. I felt greatly privileged to have the opportunity of meeting them in this pleasant, informal way. GUY SILK, an old AA boy, runs an old-established practice in Leamington, and DENYS HINTON, a new AA boy, is starting up a new practice there, whilst also teaching at the Birmingham School. Our gathering was a mixed one and the keen interest of the architect's wife in the affairs and fortunes of her husband's practice revealed itself as always.

Coventry is fortunate in having Arthur Ling to guide its architecture at this stage in its development. He has concerned himself with the speculative builder's interests and he has taken up the matter of design with the local federation, and he has had ERIC LYONS there to talk to them. As a result of his efforts, it is said that Coventry is becoming architect-conscious. The builders are collaborating happily with him, which pleased me very much, and I believe we should all be grateful to him for his advancement of the common cause. I believe he has done a service to architects, builders and City Council alike, an impression in which I was confirmed when I saw the model which he has made of the new Coventry which is one day to be.

A Wartime Factory

Before meeting more people concerned with the all-absorbing subject of rebuilding in Coventry, it seemed appropriate for me to learn something of the industry which employs fifty per cent of its population. I took the opportunity of seeing the Humber Works, where I was given a very warm reception and a great deal of information by MR. WEBB of the Rootes Group. You could hardly call this a factory, for it is a large assembly shop of over 1,000,000 sq. ft. It is just outside Coventry and the people working there are taken to and from their work by Corporation buses—that is, the ones who do not come in their own cars. It is a wartime building entirely on one floor with large span steel roof trusses leaving vast open spaces for assembly, and as one car per minute is turned out, it is not difficult to see that this space is very essential. The whole organisation had the appearance of an efficient, smooth-running, well-oiled machine, and I could not help but wonder whether the whole thing would stop if one proverbial spanner were appropriately dropped. It is one of the anomalies of the motor car industry that well-designed, streamlined and beautifully finished, smooth-running machines can come out of these uninspiring buildings, and this seems particularly incongruous in the modern environment of Coventry. I like to think that the industry which has given the lead in so much will one day add to its fame by giving the lead in industrial architecture.

After this brief glimpse of the motor car industry at its efficient best, I returned to the main object of my investigations with a little trepidation, wondering whether the best of us in the building industry could equal this quality of excellence. But I had for my next appointment ROLF HELLBERG, whose enthusiasm, keen interest and wide knowledge, soon dispelled any temporary misgivings I might have had about competence in our own field of operation. Hellberg took me over the store which he designed for Owen Owens of which Coventry is justly proud. It sits harmoniously in the pattern of its surroundings, and although the design itself is individual, it leaves no doubt in one's mind that it is a store. Hellberg has travelled widely to study his problem, and it is apparent that a vast amount of knowledge has gone into his planning.

Spirit of Enthusiasm

Arthur Ling, untiring in his efforts to help me in the purpose of my visit, had collected together for me a group consisting of E. C. HARRIS of E. Harris & Son, building contractors ; D. AUCHTERLOUNIE, a quantity surveyor who used to work in the City office but is now with the building firm of W. H. Jones & Son, Ltd. ; DOUGLAS OLIVER, Vice-chairman of the Coventry Society of Architects, and A. H. GARDNER, practising in Coventry. Rolf Hellberg also joined us and together we talked building and more building. To a man, they were keen and enthusiastic about their work, with no grumbles, but full of ideas for improving the industry, and for the short time at our disposal they piled their ideas in on me good and hard. I wish I could recapitulate all the ground we covered. We discussed the training of foremen and it was generally agreed that they required additional technical training as well as their ordinary practical work if they were to be fitted for the new techniques. The clerk of works too came under review, and we all agreed that he must be a man of higher technical and general education and that his present status is far too low and commensurate with a low salary. In discussing site meetings, a suggestion was made which appealed to me very much, namely that a regular high-level policy meeting should be held with the client present, as well as the ordinary working site meeting. I was told that this had been found to work excellently, even on quite small jobs, and I began to think of cases where troubles might have been avoided had such meetings taken place.

I had only time for the briefest look at the new cathedral site, but until the work is a good deal further advanced it is difficult to assess its effect on the town. But it is good to know that amidst all this new building, a new cathedral is also taking shape.

I left Coventry, a town of 270,000 inhabitants, feeling that the architectural and building professions were in a very healthy and vigorous condition indeed. No touch of the sleepy, provincial practice about what I found, but it did occur to me that there were one or two sleepy London practices which could learn a lot in Coventry.

**** In his next article Arthur Kenyon visits and describes what he saw in Birmingham.*

CORRESPONDENCE

Building Societies and House Design

To the Editor of *The Builder*

SIR,—Recently you very kindly published a letter of mine drawing attention to the fact that building societies will not be doing their duty to their investors if they continue to put money entrusted to them in outmoded houses in the mistaken belief that they are playing safe. Furthermore, that the policies of nearly all building societies, from the design standpoint, are out of date and badly need re-orientating, and that one of the best ways to do this is from the 'inside" i.e., by having architects elected to the Board of Directors; they are conspicuous by their absence in nearly all our building societies.

By doing this such directors could press the many advantages of architect-designed and -supervised buildings and thus obtain better houses for the owners and better security for the societies, to say nothing of providing work for the architectural profession. To this end, I suggested the formation of a group of architect investors, and have invited such persons to contact me giving the names of the societies in which they have funds invested, so that a meeting can be called to discuss the next step to take in dealing with this very important matter.

In consequence of the above, I have received a number of letters in agreement with these proposals, and would now suggest, in order to reduce correspondence, that architect investors themselves send me lists of other investors for the collection of information, prior to calling a meeting.

SIDNEY LOWETH [FSA, FRIBA].
2 Balfour Court, Sandgate-road,
Folkestone, Kent.

Planning for the Motor Age

To the Editor of *The Builder*

SIR,—The 'circulation' and other problems of the 'Universal Car Age' which is now upon us are largely due to the short-sighted and parsimonious roads policy of pre- and post-war governments.

This fact should be borne in mind when considering the confusing and sometimes despairing views expressed in Press and radio discussions on the subject. One should not expect the consequences of many years of apathy and neglect to be put right, as it were, overnight; but it may well be asked whether, in view of the estimated doubling of motor transport in the next ten years, present plans are commensurate with this formidable increase.

Some seem to doubt whether any plans can be effective. Mr. Maxwell Fry, for instance, has recently suggested that if chaos is to be avoided large numbers of people must be legally prevented from possessing cars. How discrimination could be fairly exercised among the hordes of claimants for preferential treatment is not clear, and in any case such a policy of despair, which would not only cause a social upheaval by killing the hopes of a fuller life for a large section of the community but also deal a deadly blow to one of our most flourishing industries, could be adopted only after every likely remedy had failed. The fact is, of course, that the remedies have not yet been properly or fully enough applied, particularly in combination, though the Ministry of Transport is beginning to adopt some of them (e.g., in the rebuilding of the Kingston By-pass).

The general requirements are well known. We want more and better planned arterial and other roads, allowing a free flow of traffic, more parking accommodation—underground, on the surface and in multi-storey buildings—more private garages in the older suburbs to stop front-garden and kerb-side parking, better planned urban central areas with all new buildings absorbing their own cars, more pedestrian precincts, more segregation of pedestrian and motor traffic—all this and much else, with a full regard for the amenities.

The physical problem is formidable enough, but there can be no doubt that the professional, contracting, labour and material resources are, or could be, made adequate to the task. The real problem is how to get all these forces to work at their full potential. The doubts are whether the finance will be provided and whether government, national and local, is equipped or has the essential drive for so tremendous an undertaking.

We are now spending about £60 millions a year on the roads, a sum which the experts claim to be hopelessly inadequate. It seems clear that we shall have to change our attitude to expenditure of this kind and regard it as an investment. Though no tangible return can be expected on much of it, a good deal, perhaps all, could be indirectly recovered in a matter of years through the elimination of waste—of time and all the things that go with it—to say nothing of the prevention of accidents and the saving of life on the roads.

Our present timid policy falls far short of the requirements. We are almost certainly drifting towards an appalling state of congestion on the roads which may result in Mr. Fry's pessimistic forebodings being realised. We can only hope that the Government will appreciate the seriousness of the outlook and act boldly and decisively while there is yet time.

G. J. HOWLING [Hon. ARIBA],
Wimbledon, SW19.

'I can't find a brick, Tosh—don't you know there's a shortage?'

Altar or Communion Table

To the Editor of *The Builder*

SIR,—As a regular reader of your newspaper I take particular interest in the reviews you make of new buildings throughout the country. I am very impressed by the excellent photographs you produce to accompany these articles; I show even more interest when the reviews are of new churches and I collect the illustrations printed of these and pass them on to the Minister, Rev. John Murray, BD, of my own church, Argyle Congregational, Bath. These pictures are pinned on the church notice boards and members are able to follow the pattern of church building to-day.

However, I should like to draw your attention to one point. Whilst our friends in the Anglican and Roman Catholic churches make the Altar the focal point of their worship, we in the Non-conformist churches use the Communion Table for this purpose, and it is around this Table that all those who love the Lord are invited to gather to celebrate the most sacred of our Church services. We would appreciate it, therefore, if you would note this when labling your captions to photographs of interiors of Free Churches.

MICHAEL HATHERILL-BURGESS.
186 London-road West,
Batheaston, Bath.

FATIGUE OF ENGINEERING STRUCTURES

Committee to Review Research Needs

A COMMITTEE to review current research needs on the fatigue of engineering structures and to survey existing research facilities, has been set up by the Council for Scientific and Industrial Research following an approach from the Institution of Civil Engineers. The committee will not include aircraft structures, reinforced concrete structures, or metal physics in the scope of their review, though information gained in these fields will be used.

Professor Sir Alfred Pugsley, of the Department of Civil Engineering, Bristol University, has been appointed chairman. The other members of the committee are: Sir Donald G. Bailey, Mr. T. Baldwin, Mr. H. L. Cox, Mr. O. A. Kerensky, Mr. H. M. Pemberton, Mr. C. E. Phillips, Professor S. C. Redshaw, Dr. P. B. Walker and Dr. R. Weck.

The committee's terms of reference are: 'To review current research needs on fatigue of engineering structures (metal), to survey existing research facilities and to make recommendations to the Department of Scientific and Industrial Research.'

The committee is interested in examining records of failures or accidents which might have been due to structural fatigue, even if fatigue was not recognised as the initial cause. Such information may be helpful in revealing areas in which further research work is needed.

Appointment

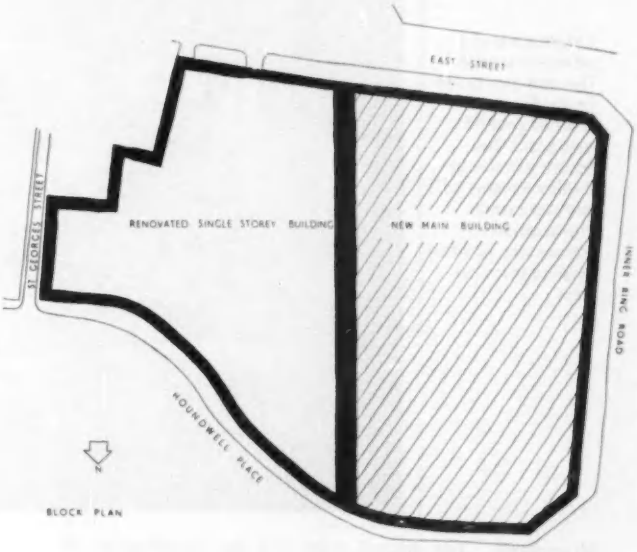
ON APRIL 28 Dudley Town Council appointed Mr. D. S. Warren as Borough Engineer to succeed Mr. J. S. Evans, who retires in August.

The Houndwell (left) and Queen's-way elevations

DEPARTMENT STORE,

Queen's Way, Southampton, for Edwin Jones & Co. Ltd.

Architects:
HEALING & OVERBURY
Quantity Surveyors:
L. A. FRANCIS & Sons
Structural Engineer:
R. H. THOMASON, MIStructE
Heating and Ventilating Engineers:
W. E. FRETWELL & Partners
Electrical Engineer:
A. W. JERVIS, AIEE, FIES
General Contractors:
JAMES LONGLEY & Co. Ltd.
Other Contractors:
H. STEVENS & Co. Ltd. (Stage 1)
A. J. DUNNING (Weyhill) Ltd. (Stage 2)



BLOCK PLAN

THE firm's original premises, known as Queen's Buildings, which extended from Houndwell to East-street, and also included a large furniture store on the south side of East-street, were destroyed by enemy action in 1940. All that remained was the basement east of the pedestrian way known as 'The Cut', the boiler house, and the Chapel block.

It was decided to continue trading as soon as possible, and a temporary ground floor showroom was erected over the eastern half of the site, with a staircase to make use of the original storage basement for trading. A large showroom with north-light factory roofing and a restaurant was constructed, and the firm has traded in these buildings ever since.

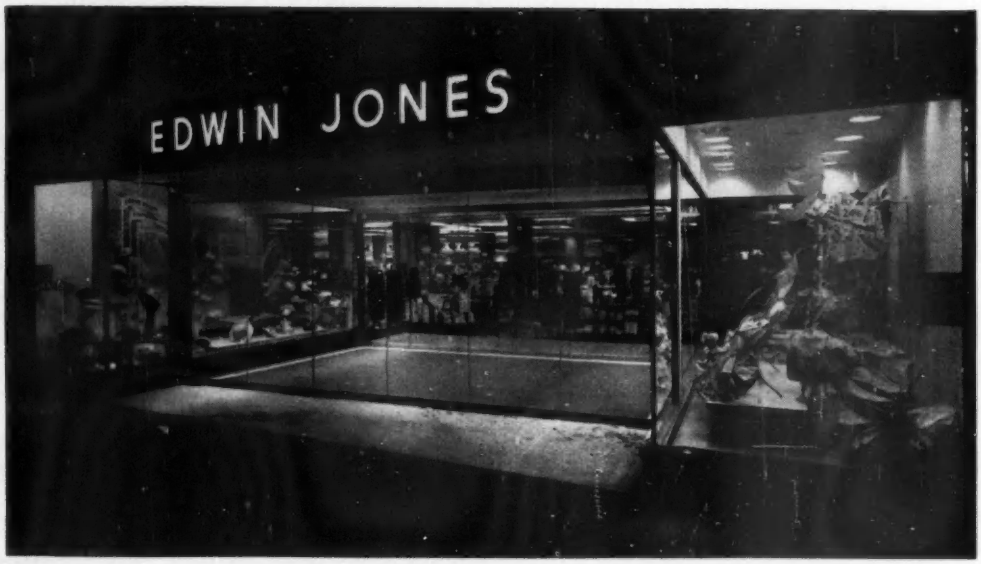
At the same time, a goods dock was erected on the western half of the site to join the temporary showroom building to the remaining Chapel block and boiler house, leaving a flat vacant site facing East-street, and a vacant site to the north, already at basement level.

After the war, it was necessary to proceed as soon as possible with rebuilding on a large scale. Consideration was given to many schemes and it was eventually decided to rebuild on three floors on the western half of the Queen's Buildings site, and to improve and renovate the temporary showroom, leaving the car park site undeveloped.

The work has been divided into three main stages. The first stage was the construction of the basement and boiler house on the northern half of the vacant site, facing

Department Store, Southampton

The Houndwell elevation showing the new shopfront continuing on the old single-storey block



A night view of a typical entrance. The shop fronts are finished in Bluehill granite with black Bon Accord granite to display window cills and stallrisers. Entrance door frames are in satin finished stainless steel

Houndwell. The second stage was the construction of further basement areas, retaining walls, stanchion bases and foundations ; the erection of the whole of the steel frame and the concrete encasures, floor slabs, roof and staircases. The third and final stage comprised all work necessary to complete the new building around this framework, and was known as the superstructure contract.

Section one, which was commenced in January, 1955, included the new boiler house and deep basement, and also nine bays of steelwork over an area 90 ft. x 90 ft., taken to the full height of the new building. This framework was rapidly encased, floored and roofed, and the walls clad in a temporary manner with windows and asbestos sheeting. Temporary display windows and a public entrance were formed facing Houndwell, and this section was occupied for trading in September, 1956.

The overlapping second section commenced in May, 1956. The new steel frame was erected rapidly as bases were made ready, and by June, 1957, the whole of stage two had been completed, except for the 35 ft. wide bay of steelwork along the east flank of the new building, which was to overlap the old showroom. At this time, *in situ* reinforced concrete floors and roof slabs were being constructed, also concrete encasures to steel beams and columns and reinforced concrete staircases.

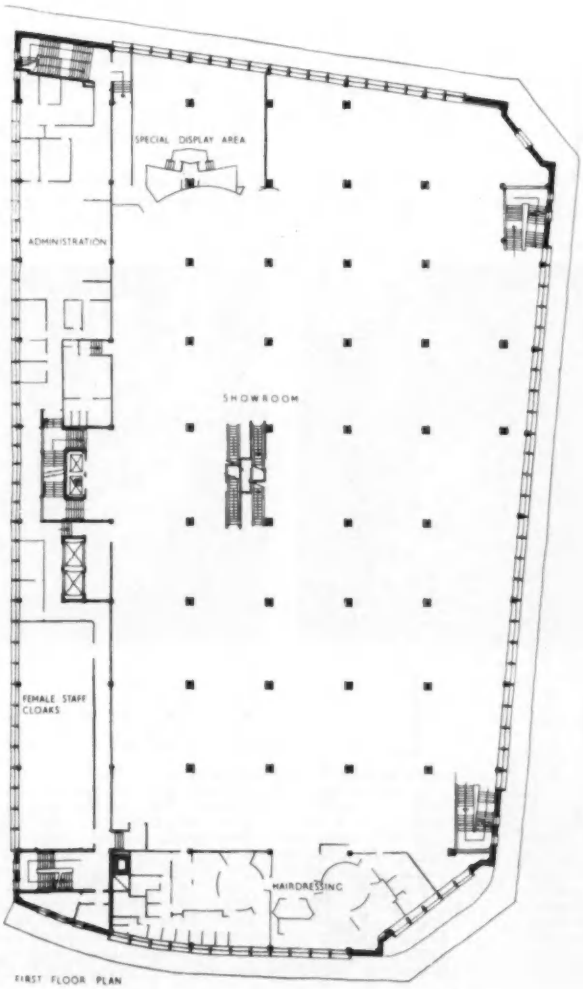
The general contractors for the superstructure took over the site in July, 1957, on a fixed price contract scheduled to be completed on March 14, 1959.

The new building is steel-framed and encased in concrete. Floors and roof slab are of *in situ* reinforced concrete, chosen to give maximum flexibility for future re-planning involving holes through floors or redistribution of loads.

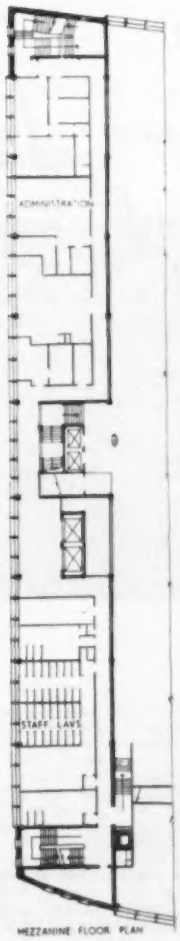
The self-service cafeteria, like the new restaurant, is in the existing single storey building. The walls are finished with 'Formica' murals based on the store's coronet motif

A typical staircase on the first floor. The staircases are in reinforced concrete carried on steel rakers. The walls are finished with glossy surfaced tiling

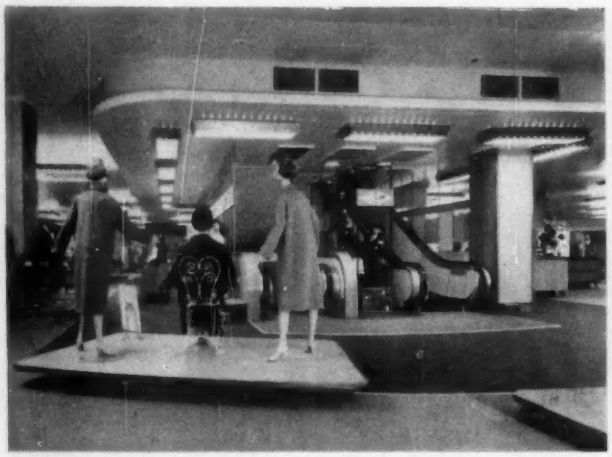
Department Store, Southampton



FIRST FLOOR PLAN



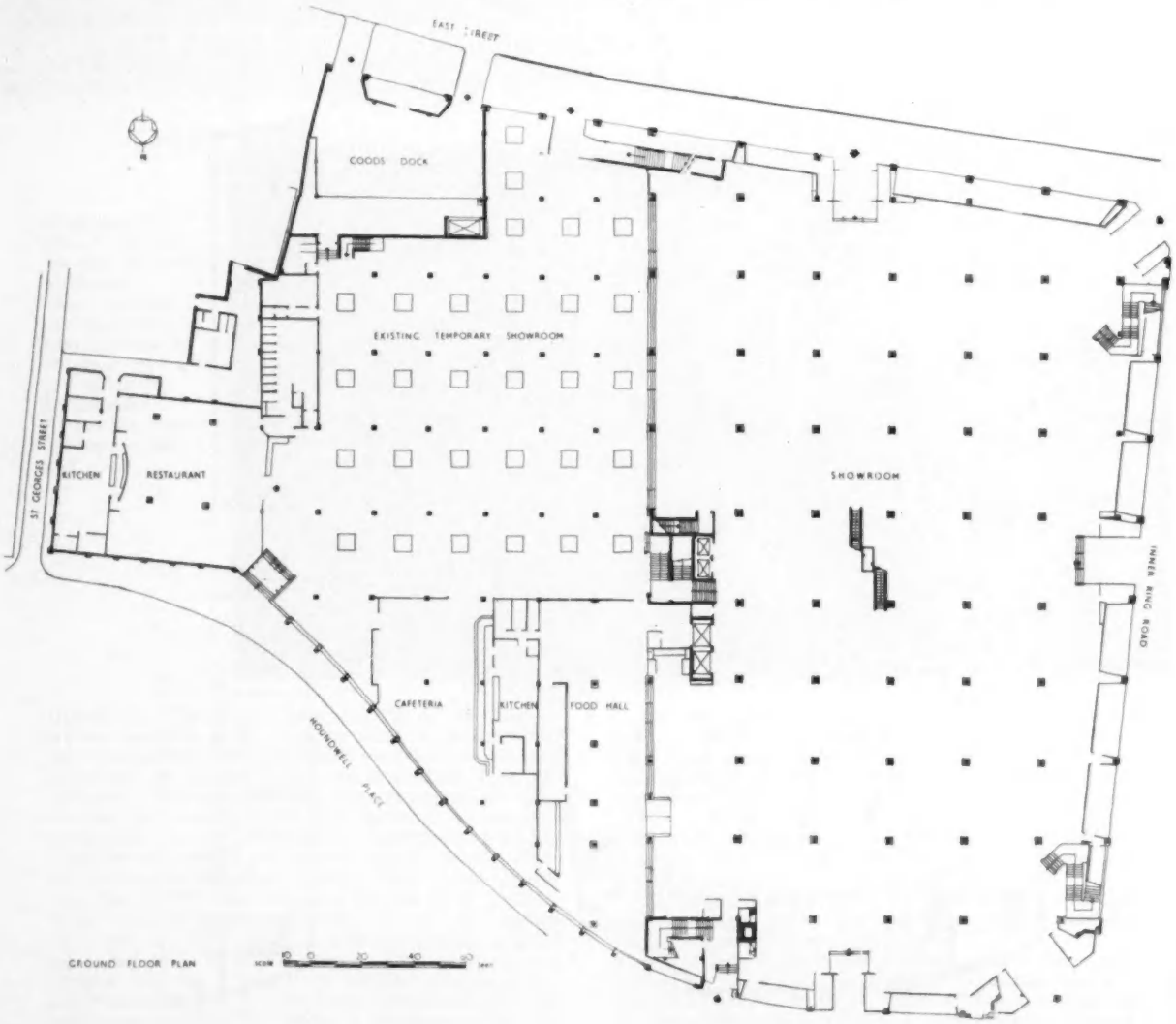
MEZZANINE FLOOR PLAN



The central escalators on the first floor which is devoted to women's fashions. The grilles on the drop ceiling above the escalators conceal large warm air heaters

A general view of the fashion department on the first floor. The lighting fittings which are used throughout the store contain eight 5 ft. 80-watt warm white fluorescent tubes

Department Store, Southampton



Department Store, Southampton

The steel has been designed to allow extensions on the east side, and for a further storey on the roof, if required. Staircases are of reinforced concrete supported on steel rakers.

Main walls are 20 in. thick brick cavity walls, with delta metal wall ties, faced with golden brown hand-made bricks, and the window mullions and surrounds are of Portland stone. The wide overhanging coping is of reinforced concrete faced to match the stonework, as is the large cill below the windows.

Windows are purpose-made galvanised steel and the panels between are faced with green faience slabs cramped to 9 in. brick backings with copper cramps and dowels.

Inside the building, flush plaster tile ceilings give a clean appearance, and all tiles are easily removable to give access to services within the ceiling spaces. Column casings are large, as most of them house pipes, but the use of fluted oak and smooth veneer on alternate sides has reduced the apparent bulk. The veneered sides are removable for access to pipes and services.

The four escalators give full service up and down the building, and are planned to give continuous movement by simply turning to the left or right. Staircases are positioned for easy access to all floors and wall tiling was chosen for colour and ease of maintenance. The two passenger lifts give additional access to the upper floors.

Heating is by means of heater cabinets under windows around the two upper floors, and also large heater units concealed in the dropped ceilings over the escalators, which blow warm air horizontally across the showroom areas. At ground floor level, heating is provided by large warm-air units at each entrance which provide comfortable vestibules and heat the areas inside the showrooms, whilst further heaters are housed in the escalator ceiling.

The renovated single storey showroom now has a new flush ceiling of 'Asbestolux' tiles with plywood egg-crating under rooflights. The columns have been encased to match the new building, and the customers' toilets near the restaurant have been completely modernized. A new ladies' powder room is also incorporated off the first floor of the new building.

The staff of over 1,000 are now provided with ample cloakroom and lavatory accommodation and there is a large staff canteen on the top floor overlooking the park. The offices, workrooms, bakery, telephone exchange and display studios are housed in the mezzanine bay on the east side of the new building, and these three floors are served by the two goods lifts, as well as the two showroom floors at different levels.

Goods arriving at the East-street goods dock are sent to the basement by lift from the goods platform, and the merchandise is then handled and checked in the large basement under the old showroom, and additional areas under the northern portion of the new building, before being taken in the two large lifts to the trading areas on three floors above. Goods for despatch arrive by lift in the basement, and are then held, packed, and despatched via the East-street goods dock. At the north end of the basement, there is a large section for food stock, packing and preparation, serving the new food hall on the floor above.

Details of counter fittings showing the three special 'Formica' patterns designed for use throughout the store. left : *A section of the clock department.* centre : *Part of the wool department.* right : *A handbag counter*

Sub-contractors and Suppliers :

Constructional steelwork, Dawnays, Ltd. ; *reinforced concrete floor slabs, concrete encasures and staircases*, Phillips Floors, Ltd. ; *asphalt damp proof courses and asphalt and bituminous sheet roof coverings*, Limmer & Trinidad Lake Asphalte Co., Ltd. ; *natural Portland stonework*, Morant Bros., Ltd. ; *cambered rooflights*, Lenscrete, Ltd. ; *heating, hot water, gas and ventilation*, Brightside Heating & Eng. Co., Ltd. ; *boiler house installation and drainage, and plumbing*, Arthur Scull & Sons, Ltd. ; *electrica installation*, D. Alldridge ; *suspended plaster tile ceilings and fibrous plasterwork*, Clark & Fenn, Ltd. ; *metal windows and rooflights*, John Gibbs, Ltd. ; *faience panels and cills*, Hathernware, Ltd. ; *display windows and public entrance*, Fredk. Sage & Co., Ltd. ; *floor and wall tiling*, Craven Dunnill & Co., Ltd. ; *fire detection installation*, Associated Fire Alarms, Ltd. ; *plastering and floor screeds*, A. C. V. Telling, Ltd. ; *suspended asbestos tile false ceilings*, Campbell Denis, Ltd. ; *hardwood strip and block flooring*, Stevens & Adams, Ltd. ; *escalator installation*, J. & E. Hall, Ltd. ; *passenger and goods lift*, Otis Elevators, Ltd. ; *staircase balustrades*, Grundy Arnatt, Ltd. ; *laying of linoleum tiles and fixing nosings*, Korkoid Decorative Floors ; *flagpoles and lightning protection*, J. W. Gray & Son, Ltd. ; *high level name signs*, Franco British Electrical Co., Ltd. ; *facing bricks*, W. T. Lamb & Son, Ltd. ; *sanitary fittings and ironmongery*, Kennedy (Builders' Merchants), Ltd. ; *fashion departments, first floor and food hall*, George Parnall & Co., Ltd. ; *kitchen equipment and cafeteria*, Denham & Sons, Ltd. ; *store theatre and interior fittings for many departments*, Drakes (Shopfitting Specialists) ; *Formica plastic on counters, table tops, walls and doors*, Formica, Ltd.

'THE BUILDER' COST OF BUILDING CHART: Variations from 1914 to Date

(Copyright: H. J. Venning, FRICS, and 'The Builder')

CHARTS on this and facing page show (Chart A) the fluctuations in Wages and Building Costs from 1914 to date, and (Chart B) the rise in Wages, Materials and Building Costs over the years 1939 to 1959. They have been compiled by Mr. H. J. Venning, FRICS.

The index is shown as standing at 365 similar to that in 1958 because the February wage increase appears to have been absorbed by the industry.

Although it is anticipated that the volume of work in 1959 will be greater than 1958, this does not seem to have made estimating less competitive.

The index shown is an average for the ordinary run of building work but it should be realised that for alterations and repairs, etc., i.e., work with a high labour cost and where it is difficult to make proper use of machinery then the chart will not accurately reflect changes in the cost. The cost of such work does in fact more nearly follow the cost of the wages.

Materials reached a peak in September, 1957, and since then there has been a slight decline.

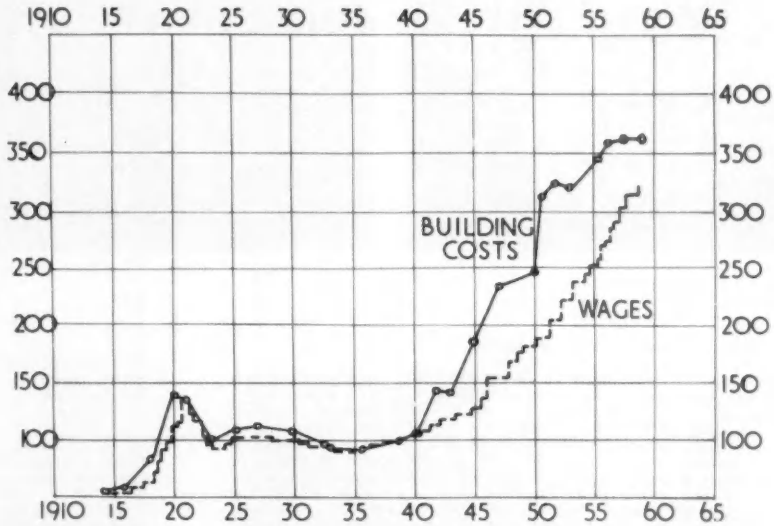
The line showing Building Costs is in each case based on actual tenders for the normal run of building contracts. The line for Materials is based on the figures published by the Central Statistical Office. The line for Wages is based on a conventional average of one labourer to one craftsman, and takes account of the indirect benefits as shown in the table.

The line does not include anything to do with incentive payments.

WAGES

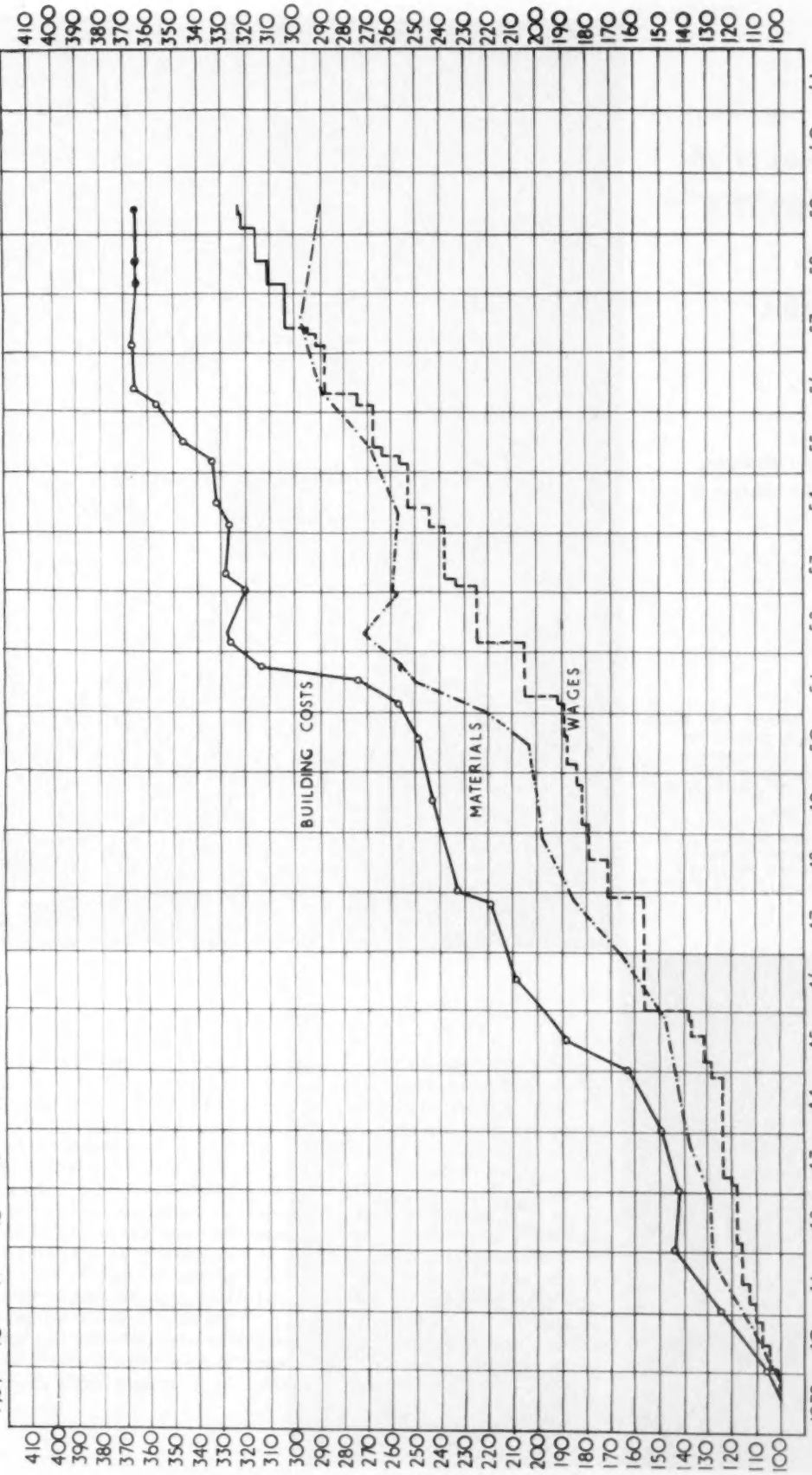
Wages of one craftsman and one labourer (London rates) separately and conjointly with an allowance for emolumeats such as the guaranteed week, holidays with pay and allowances under the working rules.

Date	*Craftsman Labourer*	*Conjointly*	*Pence*	*Percentage Allowance*	*Actual Cost in Pence*	*Index Figure*
June, 1939	1/9 +1/3¾	3/0¾	36.75	+ 5	38.59	100
December, 1939	1/9½ +1/4½	3/1¾	37.75	,,	39.64	102.7
January, 1940	1/10 +1/4¾	3/2¾	38.75	,,	40.69	105.4
June, 1940	1/10½ +1/5½	3/3¾	39.75	,,	41.75	108.2
September, 1940	1/11 +1/5¾	3/4¾	40.75	,,	42.78	110.8
February, 1941	1/11½ +1/6¼	3/5¾	41.75	,,	43.84	113.6
June, 1941	2/0 +1/6¾	3/6¾	42.75	,,	44.89	116.3
February, 1942	2/0½ +1/7¼	3/7¾	43.75	,,	45.94	119.05
February, 1943	Holiday Stamp	3/7¾	43.75	+ 5¼	46.04	119.3
April, 1943	2/1½ +1/8	3/9½	45.5	,,	47.89	124.1
November, 1944	2/2½ +1/8¾	3/11¼	47.25	,,	49.73	128.8
February, 1945	2/2½ +1/9¼	3/11¾	47.75	,,	50.25	130.2
July, 1945	2/3½ +1/10	4/1½	49.5	,,	52.09	135.0
October, 1945	Guaranteed Week	4/1½	49.5	+ 6½	52.72	136.6
January 1, 1946	2/7½ +2/1¼	4/8¾	56.75	,,	60.44	156.6
September 30, 1946	Increase H.I.	4/8¾	56.75	6¾	60.58	157.0
February, 1947	Travelling	4/8¾	56.75	7	60.72	157.3
September, 1947	Holiday Stamp	4/8¾	56.75	7¼	60.86	157.7
November 16, 1947	2/10½ +2/3¾	5/2¼	62.25	+ 7	66.61	172.6
July 5, 1948	Health Scheme	5/2¼	62.25	+10	68.48	177.4
July 11, 1948	2/11 +2/4	5/3	63.0	,,	69.30	179.5
February 7, 1949	2/11½ +2/4½	5/4	64.0	,,	70.4	182.4
October 3, 1949	2/11½ +2/5	5/4½	64.5	,,	70.95	183.9
February 6, 1950	3/0 +2/6	5/6	66.0	,,	72.6	188.1
July 3, 1950	3/0 +2/6½	5/6½	66.5	,,	73.15	189.5
February 5, 1951	3/0½ +2/7	5/7½	67.5	,,	74.25	192.4
March, 1951	3/3 +2/9½	6/0½	72.5	,,	79.75	206.6
March 26, 1951	Holiday 3d.	6/0½	72.5	,,	79.75	206.6
April 2, 1951	Holiday 3d.	6/0½	72.5	,,	79.75	206.6
October 1, 1951	Increase Insurance	6/0½	72.5	,,	79.75	206.6
February 4, 1952	3/6 +3/0½	6/6½	78.5	+10½	86.74	224.8
April 7 & 11, 1952	Holiday Stamp	—	78.5	10¾	86.9	225.3
October 6, 1952	Increase Insurance	—	78.5	11	87.13	225.8
February 2, 1953	3/8 +3/2½	6/10½	82.5	10	90.75	235.2
April 6, 1953	Extra week's holiday	—	82.5	12	92.4	239.4
February 1, 1954	3/9 +3/3½	7/0½	84.5	11¾	94.43	244.7
May 24, 1954	3/10½ +3/5	7/3½	87.5	11½	97.56	252.8
February 7, 1955	3/11 +3/5½	7/4½	88.5	,,	98.67	255.7
April 18, 1955	4/1½ +3/7	7/8½	92.5	11	102.67	266.0
April 4 & 11, 1955	Holiday Stamps 1/- and 6d.	—	92.5	12	103.6	268.5
June 6, 1955	Increase Insurance	—	92.5	12½	104.06	269.7
February 6, 1956	4/2½ +3/8	7/10½	94.5	11¾	105.6	273.6
April 16, 1956...	4/5 +3/10½	8/3½	99.5	11½	110.9	287.4
February 4, 1957	4/6 +3/11½	8/5½	101.5	10¾	112.4	291.3
April 1 & 22, 1957	Holiday Stamps 1/- and 6d.	—	101.5	12	113.68	294.6
May 27, 1957	4/7½ +4/1	8/8½	104.5	11¾	116.78	302.6
September 2, 1957	N. Insurance 2d. Increase	8/8½	104.5	11¾	116.78	302.6
February 3, 1958	Do. 1/11					
February 3, 1958	4/8½ +4/2	8/10	106.5	12½	119.81	310.5
June 23, 1958	4/9½ +4/3	9/0½	108.5	12½	122.06	316.3
July 7, 1958	N. Insurance 2d. Increase	9/0½	108.5	12½	122.06	316.3
February 2nd, 1959	4/10½ +4/4	9/2½	110.5	12½	124.04	321.4
March 23, 1959	Holiday Stamp 3d.	9/2½	110.5	12½	124.32	322.2
April 6, 1959	Do. 6d.					



Building Costs, 1914-1959: This chart (A) shows the fluctuations in Wages and Cost of Building from 1914 to date.

THE COST OF BUILDING.—Variations from 1939 to May, 1959, shown in Charts prepared by H.J. Venning, FRICS, Chartered Quantity Surveyor

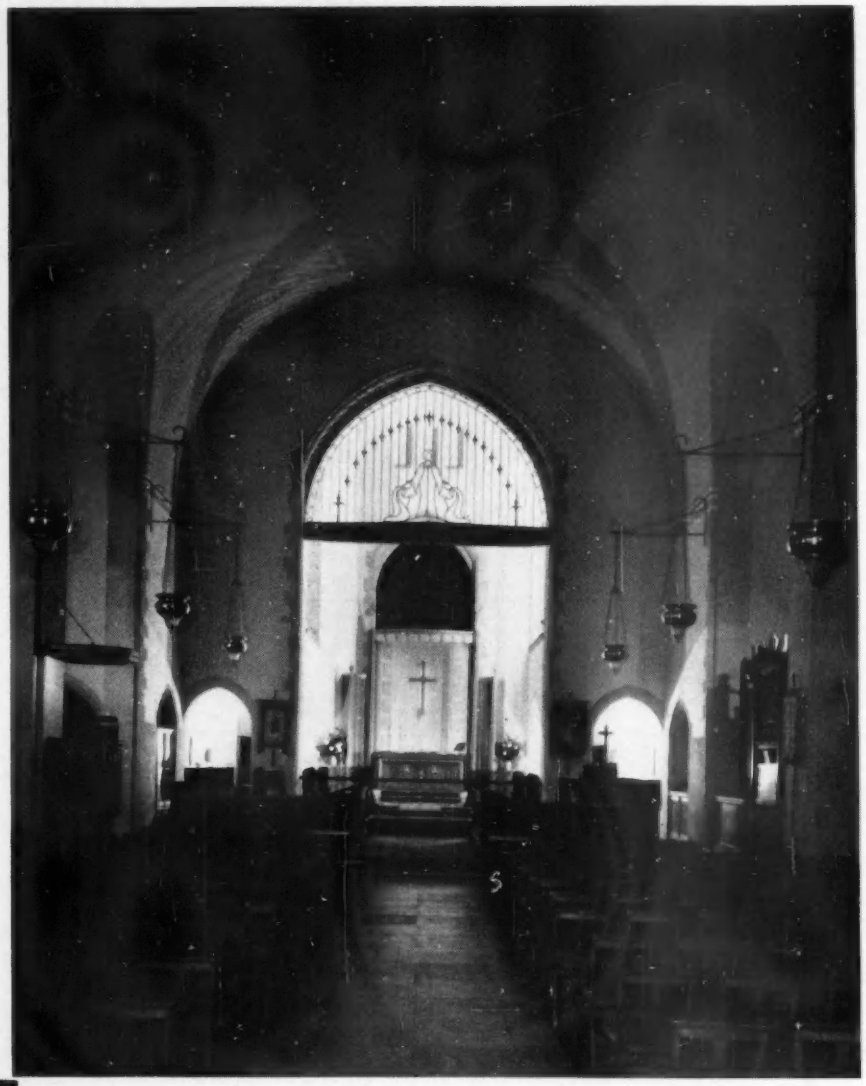


Copyright vested in Mr. Venning and 'The Builder'

BUILDING COSTS, 1939-1959 (Chart B).—Plotted above are the fluctuations in Wages, Materials and Building Costs over the years 1939 (Datum 100) to May, 1959. At May, 1959, the index stood at 365 as it did in 1958. On facing page are itemised the various wages and other increases since 1939.

Improvements to St. MILDRED'S CHURCH, Addiscombe, Surrey

Architects :
E. C. P. MONSON, A/ARIBA
R. TATAM, ARIBA, Partner in Charge



right : *A general view of the church looking towards the Sanctuary. Apart from the general redecoration, the Sanctuary rails, screen and the reredos are new*

below : *A cartouche commemorating the presence of HRH Princess Margaret at the dedication service*

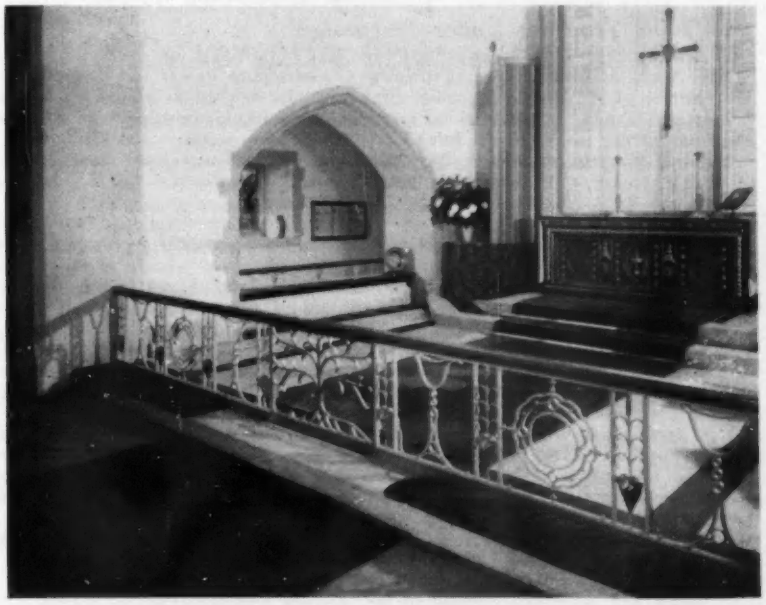
THE church was built in 1932 to the design of the late Cecil Greewood Hare, of Bodley & Hare. To celebrate the 25th anniversary of its dedication, it was decided to carry out the work of completing the adornment of the Sanctuary, redecoration of the church and the provision of a new organ. The work in the sanctuary and redecoration were completed and dedicated by the Archbishop of Canterbury in October of 1957. The Sanctuary work consisted of a new reredos, sanctuary rails and screen.

The provision of a new organ presented certain problems. In the first place it was known that the original planning of the church envisaged the eventual placing of the organ in the west end. At that time a west end window was not included in the plan but one was subsequently incorporated as a memorial. It was essential that the design of the organ front should not appear as if split in two, whilst at the same time preserving the appearance of the window. This has been achieved by extending a raking canopy from the top of the existing gallery so that the speaking show pipes could be brought to the front of the existing recess. The large pipes are arranged either side of the recess and sweep back with side screens to the window, whilst smaller pipes, linked by a wrought metal screen, are carried

Improvements to St. Mildred's Church, Addiscombe, Surrey

left : *The new organ which is arranged around the memorial window at the west end. The raking canopy forms a baptistry over the existing font*

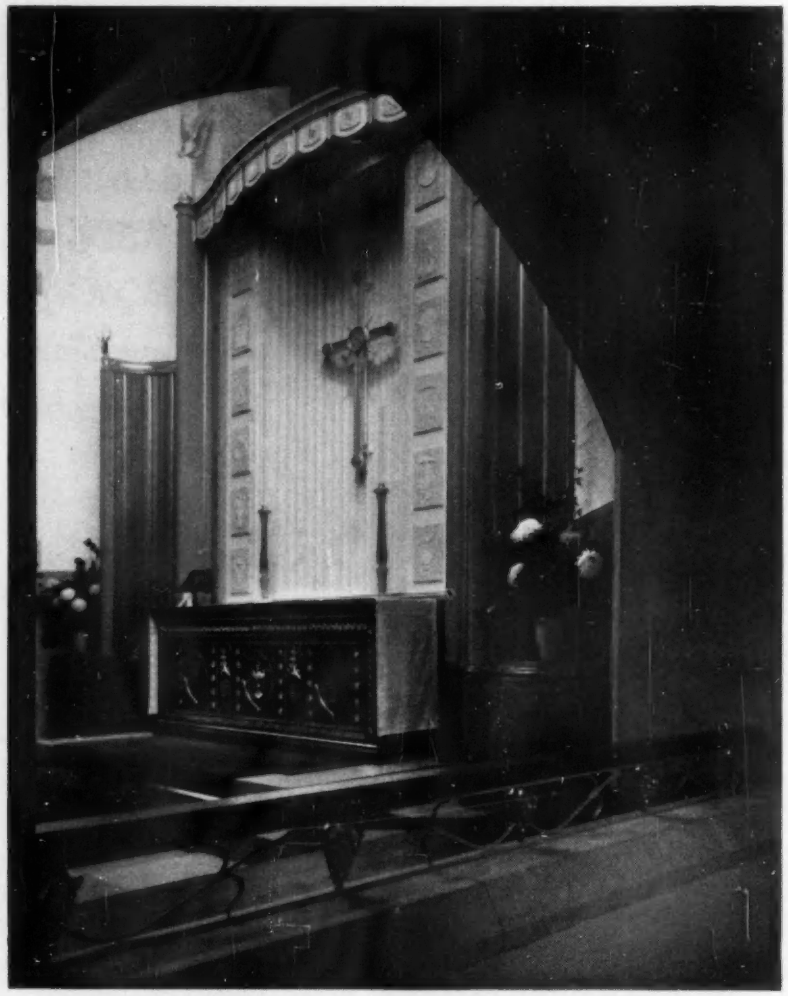
below : *A detail in the Sanctuary showing the new rails*



across the front. The console is placed at the east end of the church. The raking canopy with decorated soffit also forms a baptistry over the existing font.

Full advantage has been taken of using the pipes for composition and decorative effect. The pipes are of burnished and lacquered copper with white metal mouthpieces ; the first time that large pipes of this material have been used in this country.

The presence of HRH Princess Margaret at the dedication service on May 4, 1959 has been commemorated by the incorporation of a cartouche containing her cipher arranged on one of the finials to the pilasters under the canopy.



Improvements to St. Mildred's Church, Addiscombe, Surrey

Contractors :

The work in the church has been done by a number of specialists. The firms concerned are as follows :

Organ builder, N. P. Mander, Ltd.; *plasterwork*, George Jackson & Sons, Ltd.; *wrought metal work*, Clark Hunt & Co., Ltd. ; *electrical work*, Sandilands (Electric) Ltd. ; *decoration of reredos and organ works*, George Jackson & Sons, Ltd. ; *redecoration of church*, Campbell Smith & Co., Ltd.

A view of the sanctuary showing a section of the new rails and also the new reredos

JOINT CONSULTATION IN BUILDING

Brick Shortage, Code of Tendering Procedure and Joint Training Under Discussion

THE National Joint Consultative Committee of Architects, Quantity Surveyors and Builders conferred with the chairmen of the ten Regional Joint Consultative Committees on May 29. Mr. G. W. Grosvenor, CBE, was in the chair. Among the items discussed were the following:

Standard Form of Estimate for Nominated Sub-Contractors: The Conference was informed that the drafting of this document was almost completed: it was hoped to publish it shortly.

Building and the Economic Situation: Verbal reports submitted to the Conference suggested that although generally the amount of work both on architects' drawing boards and on contractors' order books showed a welcome improvement on 1958 there was still a shortage of works suitable for the smaller firms in some parts of the country, notably the rural areas of East Anglia and the South West.

The Conference expressed concern at the serious shortage of bricks (particularly flettons) which had developed throughout the country, and it was felt that this shortage was due mainly to sudden changes in the official attitude towards capital investment in building works. The Conference therefore decided that the following resolution should be submitted to the Minister of Works:

'That this National Conference of architects, quantity surveyors and builders records grave concern at the nation-wide shortage of bricks which threatens to cause severe dislocation throughout the building industry. The Conference urges that (1) the Minister of Works should convene a meeting of the interests concerned to consider means of improving brick supplies, and (2) since the brick shortage appears to be the result of sudden changes in official policy towards building, the Government should encourage more long-term programmes of major building works similar to those recently announced by the Minister of Education.'

Code of Tendering Procedure: The Conference received copies of a draft Code of Tendering Procedure, the terms of which have now been agreed by the three constituent bodies of the JCC (the RIBA, RICS and NFBTE). It was agreed that when printed the Code should be the subject of an open meeting at the RIBA.

Joint Training of Architects, Quantity Surveyors and Builders: The Conference received reports of the residential joint courses which have been arranged by the Regional Consultative Committees throughout the country, and of the activities of the Junior Liaison Committee which operates in London.

Other Matters: The Conference also discussed:

(1) The possibilities of architects bringing the builder into consultation early in the planning stages of a project while still preserving an element of competition.

(2) Functions and responsibilities of regional consultative committees.

(3) Insurance requirements following the decision in the case of Gold v. Patman & Fotheringham, Ltd., and

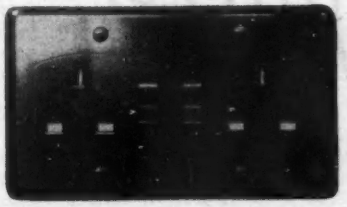
(4) Tendering for specialist works, with particular reference to general builders and contractors being given an opportunity to tender for works which they are fully qualified to carry out.

These matters are to be given further consideration of the National JCC.

news from MK

June 1959

Response to campaign for well-wired Homes

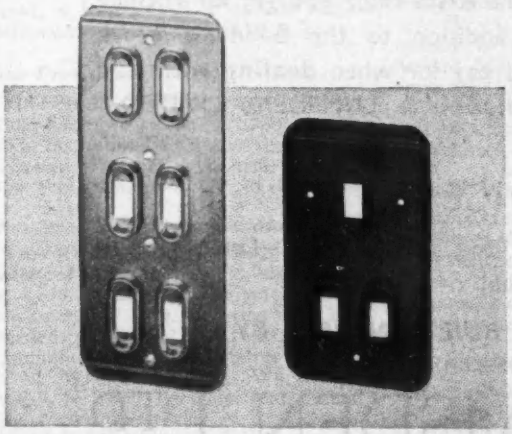


MK advertising in Ideal Home, House and Garden, Homes and Gardens, House Beautiful and Good Housekeeping recommends the installation of twin socket-outlets as one means of providing better electrical facilities at low cost.

As a result of the latest MK advertising campaign many thousands of individual requests for more information have been received from prospective house owners. Readers responding to these advertisements have been sent a copy of "Planning the Electrical Home". This MK publication stresses the importance of careful electrical planning, and urges the need for more socket-outlets—important points on which the architect's guidance is of great value to every client.

LOWER PRICES FOR COOKER CONTROL UNITS

More efficient production techniques have enabled us to reduce prices of cooker control units. A full colour leaflet No. 246 is available describing the whole range and including the new prices.



New vertical plates enhance MK's versatile Gridswitch range

Here are vertical counterparts to the existing 3, 4 and 6 gang patterns. Available finished aluminium stove enamel, BMA or matt chrome, they bring greater flexibility to MK's comprehensive range of Gridswitches. List Nos. 3353, 3354, 3356, 3393, 3394 and 3396. Please ask for details of the complete Gridswitch range.

MK

M. K. ELECTRIC LIMITED EDMONTON LONDON EDMonton 5151

MK106ADHB

SERVICE

"Work done for the **benefit** of another . . ."

"A benefit or **advantage** conferred on someone . . ."

"The **organization** performing this . . ."

SERVICE

"The extra thing you get for nothing in addition to the Builder's Work you pay for when **dealing** with . . . MULLEN & LUMSDEN, LIMITED."

SERVICE

At the ***All-England Lawn Tennis Club.***

BUILT IN 1921 BY:—

MULLEN & LUMSDEN LTD

CONTRACTORS

41 EAGLE STREET, HOLBORN, LONDON, W.C.1

Chancery 7422-3-4

SOUTHAMPTON
SOUTHAMPTON 73176

JOINERY WORKS:
ADDISCOMBE 1264

SMALL WORKS:
MUSEUM 3705

News of the Week

Chinese Architecture

ON July 9 the RIBA will present an exhibition of 225 photographs, some in colour, of Chinese architecture. The exhibition has been prepared by the Association of Chinese Architects and will remain on view until July 31 (Mon.-Fri. 10-7: Sat. 10-5).

The exhibition is in two sections. The major section will illustrate historical Chinese architecture and town-planning, a continuous tradition of more than 2,500 years. A smaller section of the exhibition will illustrate some of the work in town-planning, industrial building, office buildings, hospitals and housing carried out since 1949 and will include the one-mile-long bridge over the Yang-tze completed in 1957.

RIBA Maintenance Scholarships

THE Royal Institute of British Architects offer for award in July, 1959, the following Maintenance Scholarships in Architecture tenable from October 1, 1959:—

One RIBA Houston Maintenance Scholarship of a maximum value of £125 per annum; *The Howe Green Fourth and Fifth Year Maintenance Scholarship* of £40; *'The Builder' Maintenance Scholarship*, value of £75 per annum, tenable as an ordinary maintenance scholarship or as a fourth and fifth year maintenance scholarship; and *The Hartley Hogarth Maintenance Scholarship* to provide grants towards the fees for architectural study at a Recognised School of Architecture. Its value will be that of the fees of the School of Architecture selected.

Applications for the scholarships must be made to the Secretary to the Board of Architectural Education, RIBA, 66 Portland-place, London W1. The closing date for the receipt of applications, duly completed, is June 26. The awards will be announced towards the end of July.

New President of RICS

MR. JOHN LEWIS POSTLETHWAITE, BEng, has been elected President of The Royal Institution of Chartered Surveyors. He is senior partner in the firm of Messrs. John Postlethwaite & Co, of Liverpool.

Chartered Surveyors' Examinations

THE RICS state that in their Intermediate Examination, held recently, of the 1,848 candidates who sat 765 have been successful. The following have been awarded prizes on the results of the examination: Penfold Silver Medal, W. M. Whetter, London, W9; Special Prize, J. N. Tong, Lavender Hill, Enfield; Robert Irwin Barr Prize, C. C. Neasham, Mauchline, Ayrshire.

Carlton Mews Redevelopment

THE London County Council announced on June 2 that they had granted permission for the erection of an annexe to the United Services Club, Pall Mall, which would entail the demolition of numbers 1, 2, 3, 11, and 12, Carlton-mews, SW1. Permission given in 1951 for a somewhat larger building had never been acted on and, as the club's requirements had changed slightly, application for the new scheme had been made.

The council have expressed the hope that, in spite of the further delay involved, the club will find it possible to co-operate in implementing a comprehensive redevelopment scheme for the area.

The proposed redevelopment of the mews was the subject of a letter from Mr. H. V. Molesworth Roberts in *The Builder* of May 29.

Brewery Companies' Merger

THE proposed merger of the Ind Coope and Taylor Walker brewery companies, announced last week, will create a very large group owning approximately 5,500 public houses together with eight breweries and fifty-one hotels. No indication can be given of any definite building development in the near future, but the amount of property involved will undoubtedly bring about a considerable amount of building work.

Housing and Planning Conference

THE National Housing and Town Planning Council Inc. are arranging an annual regional housing and planning conference for local authorities. This will be held at the RIBA, 66 Portland-place, W1, on June 17. The conference will open, at 10.30 a.m., with a civic welcome by the Mayor of St. Marylebone and will be followed by an address, given by Mr. J. Crocker, of the MoHLG, entitled 'The New Improvement Grants.' In the afternoon session Mr. G. Ferry, AMIHVE, will present a paper entitled 'A Practical Survey of Heating for the Home.' Further information from the Council at 42, Devonshire-street, W1.

Concrete Association Medal

THE MEDAL of the Reinforced Concrete Association for 1958 has been awarded to Mr. W. A. Gibbon, MA, ARIBA, a partner in the firm of Cruikshank & Seward, Manchester. Mr. Gibbon's paper dealt with 'The Architectural Expression of Structural Concrete.' This is the first time that the medal has been awarded to an architect.

Deputy Director for CoID

THE COUNCIL OF INDUSTRIAL DESIGN announces the appointment of Mr. J. Noel White to be deputy director as from January 1, 1960, when Mr. Paul Reilly, the present deputy, succeeds Sir Gordon Russell as director of the council.

PROFESSIONAL ANNOUNCEMENTS

The new practice address of MR. PETER B. DAVENPORT, ARIBA, chartered architect, will be 34 Market-place, Hyde, Cheshire (tele.: Hyde. 3064).

MR. H. A. HALPERN, ARIBA, will in future practise under the style of MESSRS. H. A. HALPERN AND ASSOCIATES, chartered architects and town planning consultants. A London office has been opened at Cumberland-chambers, 7 Edgware-rd., Marble Arch, W2, (Tel.: Ambassador 2471-3). The office at 26 High-st., Chatham, Kent, will be in the charge of MR. S. GRAHAME BUDD, ARIBA, and the office at 60 Woodland-la., Leeds, 7, in the charge of MR J. CYBULSKI, Ing. Arch., AMTPI. Trade catalogues will be welcomed at the new London office.

MR. HARRY EATON announces that consequent upon his joining in partnership with MR. G. G. EDWARDS, ARICS, chartered quantity surveyor, the style of his firm has been changed to MESSRS. EATON & EDWARDS. Mr. Eaton and Mr. Edwards are continuing to practise as quantity surveyors under the new style from 134 Deansgate, Manchester, 3.

COMING EVENTS

SATURDAY, JUNE 13

INSTITUTE OF BUILDERS (LICENTIATE DISCUSSION CLUB).—Visit to the new American Embassy building, Grosvenor-sq. Assemble at site at 10 a.m.

MONDAY, JUNE 15

NATIONAL DISPLAY CONVENTION.—Fourth National Display exhibition and convention. Royal Horticultural Society's New Hall, Westminster, SW1. 11 a.m. (until June 18).

METROPOLITAN PUBLIC GARDENS ASSOCIATION.—Annual meeting. Mansion House, EC4. 3 p.m.

TUESDAY, JUNE 16

RIBA.—Council election results and talk entitled 'Spence on Safari.' By Mr. Basil Spence, PRIBA, on his African tour. 66 Portland-pl., W1. 6 p.m.

WEDNESDAY, JUNE 17

NATIONAL HOUSING AND TOWN PLANNING COUNCIL INCORPORATED.—Annual regional housing and planning conference of local authorities. RIBA, 66 Portland-pl., W1. 10.30 a.m.

INSTITUTION OF CIVIL ENGINEERS.—Conversazione. Great George-st., SW1. 7 p.m.

THURSDAY, JUNE 18

INSTITUTION OF PRODUCTON ENGINEERS, INSTITUTION OF ENGINEERING INSPECTION, BRITISH PRODUCTIVITY COUNCIL.—Conference: 'Quality in Industry.' Palace Hotel, Buxton (until June 19).

INSTITUTE OF LANDSCAPE ARCHITECTS.—Annual meeting. 1 Park-cres., Portland-pl., W1. 6.15 p.m.

ARCHITECTS' CHRISTIAN UNION.—Reception. Guest Speakers: Rev. Bruce Reed, Mr. Kirby Laing and Mr. Kenneth White, ARIBA. Henry Jarvis Hall, RIBA, 66 Portland-pl., W1. 7 p.m.

LONDON ASSOCIATION OF MASTER STONEMASONS.—Presentation of prizes for 1959 to Stonemasonry apprentices in the London region. By Mr. E. J. Parsons, County Hall. 7 p.m.

FRIDAY, JUNE 19

INSTITUTION OF PUBLIC HEALTH ENGINEERS.—Summer meeting. Caxton Hall, Westminster, SW1. 4.30 p.m.

A HUNDRED YEARS AGO

From THE BUILDER *of June* 18, 1859

TRADES UNIONS AND THE BUILDING INDUSTRY.—Men will learn the difficulties resulting to *themselves* from embarrassing commercial speculation and fair enterprise, and these cannot be lightly tampered with by them without involving in misery to themselves, their families, and all belonging to them. . . . I sympathise with your correspondent, the 'Working Man.' I wish for him and all such to be relieved from their thraldom; the fair artizan to be well paid, and to see him give a fair day's work for his wages. But now the mechanic is demoralized by these unions. Few give a fair day's work in return for the sum they receive; and in some of the trades the nature of the work turned out is very inferior to what it was twenty or thirty years ago. Parliament must soon take up the question, and appoint a committee to inquire into the regulations and working of these trades unions, their effect upon the working men, and their employers, and the influence they have upon trade.

T. L. DONALDSON.

IN PARLIAMENT

By Our Parliamentary Correspondent

RECONSTRUCTION IN DOWNING-STREET

THE Minister of Works, Mr. Hugh Molson, and his Parliamentary Secretary, Mr. Harmar Nicholls, were the first Ministers at the despatch box at question time when the House of Commons re-assembled after the Whitsun recess on June 2.

MR. MOLSON, questioned about progress with the proposals for the reconstruction of Nos. 10, 11 and 12 Downing-street, said that the Royal Fine Art Commission had been consulted about the proposals and had expressed itself well satisfied with the lines on which the architect was working. Mr. Erith was now developing his plans further.

The Minister said that on the advice of the Historic Buildings Council for England, he had offered Brentford and Chiswick Borough Council a grant not exceeding £2,000 to meet 50 per cent of the cost of structural repairs to Boston Manor House, and he hoped this would enable them to restore the house and bring it back into use.

In a statement on the proposed memorial to Marshal of the Royal Air Force the Viscount Trenchard, Mr. Molson said that the committee appointed to advise him on it had unanimously recommended that Mr. William McMillan should be commissioned to make a bronze statue of Lord Trenchard, that the statue should be sited in the gardens to be laid out on the river frontage of the new Air Ministry building in Whitehall, and that Mr. McMillan should work in conjunction with Sir Albert Richardson, who had very kindly offered to design the pedestal for the statue. Mr. Molson said he accepted these recommendations.

Asked what further steps it was proposed to take to prevent the destruction of scheduled monuments, MR. NICHOLLS said: 'The Ancient Monuments Board has recommended that, as a long-term project, all scheduled ancient monuments should be clearly marked, with the object of avoiding unintentional damage such as sometimes occurs, for instance, in the course of agricultural operations. The Minister of Works has arranged for a small number of the more important monuments to be so marked. When this limited programme is completed, he will consider what more should be done.'

At this MR. ERIC FLETCHER wanted the programme expedited. If the co-operation of the public was to be secured in protecting ancient monuments it was obviously desirable that they should be marked as such. MR. NICHOLLS replied that the Minister, who had a lot of sympathy with that point, had to take account of cost. It was about £10 for each monument and there were 10,000 of them.

THE ROADS PROGRAMME

HINTS that a stepping-up of the roads programme was contemplated were given by the Minister of Transport, MR. HAROLD WATKINSON, and his Parliamentary Secretary, MR. RICHARD NUGENT during question time on June 3.

After Mr. Watkinson had reported the Whitsun casualty figures on the roads and commented on the generally heavier volume of holiday traffic, CAPTAIN PILKINGTON asked, —'Does not the Minister realise that there would be general support and indeed a general demand for a yet more ambitious programme of road improvements, even on top of what the Government have already done, which is a great deal?'

MR. WATKINSON.—'No Minister of Transport would ever be satisfied with the size of the road programme, but I think the House recognises that we have made a very good start after losing many wasted years after the war, which we have to make up. I hope that we shall soon be in a position at least to have the facilities, machinery and plant ready for a still further expansion.'

INDUSTRIAL DEVELOPMENT CERTIFICATES

A MORE comprehensive review of the Government's industrial development certificate policy than that which occurred in the debate on development areas before the Whitsun recess (reported in *The Builder* of May 22), was given by MR. RICHARD WOOD, Parliamentary Secretary to the Ministry of Labour, when Scottish MPs debated unemployment and industry north of the Border on June 3.

Mr. Wood recalled that last July the President of the Board of Trade announced that he intended to examine all applications for new buildings and extensions in the more congested parts of the country even more critically than in the past. Since then IDCs had been granted in the London area only for expansions that could not be placed elsewhere, for new premises for firms forced to leave their old premises (generally because they were planned out of their old premises), and for service industries and warehouses.

From last July to the beginning of May, 1959, 56 development certificates, referring to about 2 m. sq. ft. of factory space were refused in London and the South-East, and 31 certificates for about 1 m. sq. ft. were refused in other parts of the country. None was refused in Scotland.

The practical policy for any Government seemed to lie somewhere between the two extremes—direction of industry to certain places and complete locational freedom. What they should all no doubt agree was that the policy of redistribution of industry should be pursued in times when industry was expanding just as vigorously as, if not more vigorously than, in times of economic slackness.

It was when industry was expanding and more ready than at present to move into new areas that they must actively and energetically take the opportunity to secure greater density and diversity of industry in the remote areas which either had little or no industry at present or depended too much on one or two industrial concentrations. He hoped that in the months ahead as the economic expansion which they had looked for took place, the Government, Opposition, industry and people of Scotland would all seize the utmost advantage from it.

During his speech, Mr. Wood also said that since February this year there had been quite a substantial improvement in the building and civil engineering industries in Scotland.

OTHER BUSINESS

Fire Resistance of Prestressed Concrete

MR. ROBERT JENKINS asked the Parliamentary Secretary to the Ministry of Works what research had been carried out on the susceptibility of prestressed concrete to damage by fire.

MR. NICHOLLS: 'The Joint Fire Research Organisation of the DSIR and the Fire Offices Committee has, in co-operation with the Building Research Station, carried out research on the resistance to fire of prestressed concrete beams and floors. As a result, early fears about the ability of this new form of construction to withstand fire have been shown to be unfounded.'

To the question, 'Will the Government now ensure that the fire resistant properties of prestressed concrete are made more widely known?', Mr. Nicholls replied: 'Yes. The results of this work are to be published in a Code of Practice by the British Standards Institution, but perhaps the best compliment which can be paid to its efficacy is the fact that it has been chosen for a large new laboratory for the Fire Research Station which is designed to carry out fire experiments.'

Residential Caravans

SIR LIONEL HEALD asked the Minister of Housing and Local Government on June 2 whether he could yet make a statement of policy on residential caravans.

MR. BROOKE wrote in reply: 'At my request Sir Arton Wilson is investigating the problems of residential caravans. I hope to receive his report in July. I will give the report immediate consideration, and frame my future policy for tackling these problems in the light of it.'

FARM BUILDINGS

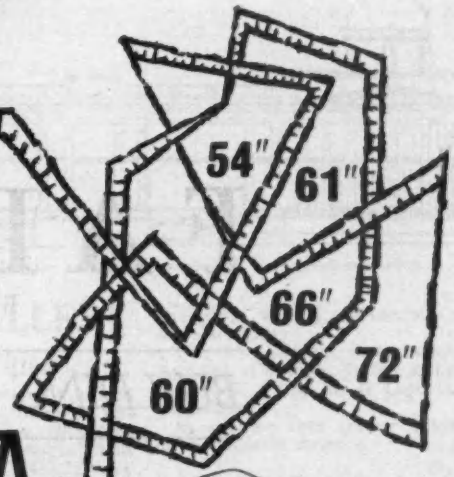
Agricultural Research Council's Report

'THE planning and layout of farm buildings is not a subject which easily lends itself to research,' states the report of the Agricultural Research Council for 1957-58, published on June 4.

States the report—'Each set of buildings and to some extent each individual building, calls for special treatment. All that the research worker can do is to provide the information from which standard types can be evolved; often this will mean little more than selecting the best from existing types found in this country or overseas. Where no satisfactory existing type is found, variants or entirely new designs will have to be evolved.

'While the Council is not responsible for development as opposed to research, it is clear that it will be impossible to test in full the conclusions reached by the research worker without controlled trials of buildings incorporating new features, on commercial holdings. This aspect of the work will therefore have to be carefully considered by the Farm Buildings Research Committee.'

The Council was not content merely to await the results of these inquiries. Wherever a suitable opportunity occurred to start work which was clearly needed the Council was prepared within the limits of its resources to make the funds available.



Measure up then modernise

The Bilston ATLANTA

fits any bathroom

ATLANTA SPECIAL FEATURES

Flat bottom

the Atlanta flat bottom helps to prevent slipping . . . ensures comfort. Particularly suitable where a shower is to be fitted.

Safety

the low sides make the Atlanta safer for young and old. It can be fitted to give an overall height of only 16".

Taps

can be fitted centrally, or on either corner to facilitate installation and maintenance.

Fittings

the Atlanta is supplied with or without overflow . . . with or without hand grip. The feet can be adjusted to accommodate all types of trap, including the Bilston "Wasteflo" prefabricated waste, trap and overflow unit.

Also available with the Bilston O.P. Hand Grip specially designed to meet the needs of the elderly or infirm.

Colours

the Bilston range includes white, or the exact colour required for any decorative scheme.

Bathroom modernisation is now simplified. Whatever the room measurement, there's a Bilston Atlanta to fit. Made in five sizes, the Atlanta has the superior Bilston finish and durability, plus design features that make it particularly safe and comfortable. The Atlanta has been selected for the Design Centre and costs no more than an ordinary bath.

A BILSTON BATH

- Atlanta
- Magna
- Cresta
- Marina
- Mermaid
- Bermuda

WE HAVE AN EXHIBIT AT THE BUILDING CENTRE 26 STORE STREET WC1

BILSTON—the bath *SPECIALISTS*

Bilston Foundries Ltd., Bilston, Staffordshire. Illustrated literature is available on request.

FALKUS

BROS. LTD.

BUILDING CONTRACTORS

CRAFTSMANSHIP
THROUGH APPRENTICESHIP
is our watchword and to do things finely and thoroughly is our endeavour.

The FALKUS ORGANISATION
has achieved in no small degree the satisfaction which derives from good workmanship and a worthy Clientele gives hearty assent.

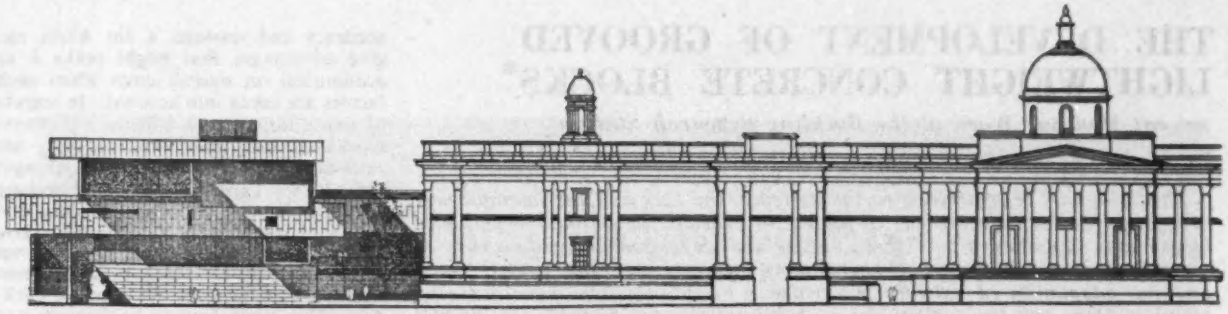
46 · BISHOPSGATE · E.C.2

Telephones:

London Wall 1876 Bishopsgate 3381-4 (4 lines)

Telegrams:

"Falbrowok, Spimark, London"



Front elevation of the winning design showing the proposed extension into the available site at the left of the National Gallery.

EXTENSION TO THE NATIONAL GALLERY

Assessors' Award in the 'Sunday Times' Competition

THE assessors in the competition for designs for the development of the island site to the north-west of Trafalgar-square (including the Hampton site) as a future extension of the National Gallery —Sir William Holford, Mr. Peter Chamberlin and Mr. William Allen—have now made their award:

1st (£2,500 prize): BARRIE DEWHURST, ARIBA, AADip (Hons) of Cambridge 38, Massachusetts, and Laburnum Cottage, Dittisham Devon (No. 158);

2nd (£1,000): BOISSEVAIN & OSMOND, 2 Field-court, Gray's Inn, WC1 (No. 212);

3rd (£500): I. H. MARSHALL and R. P. MARSHALL, PO Box 14476, Nairobi, Kenya (No. 22);

4th (£300 each): MERVYN HANDLEY, BA (Arch, St. James Cottage, Wallington, Surrey (No. 139); and WILLIAM CRABTREE, Dip Arch (L'pool), 8 Robert Adam-street, Portman-sq., W1 (No. 197).

Prizes of £50 each: PETER CARTER, ARIBA, Room 500, 230 East Ohio-street, Chicago 11, Illinois (No. 14); JOHN BICKERDIKE, ARIBA, 88 George-street, Portman-square, W1 (No. 67); PETER NORTH, Student RIBA, 162 Norwich-road, Ipswich, Suffolk (No. 99); FRANK BENNETT, ARIBA, 13 St. Peter's-square, Hammersmith, W6 (No. 148); WESTWOOD, SONS & PARTNERS, 21 Suffolk-street, S.W.1 (No. 172); DENIS CLARKE HALL, AADip, FRIBA, and H. S. SCORER, AADip(Hons), ARIBA (in association with Montgomerie & Oldfield, A/ARIBA, of Salisbury, Southern Rhodesia), 6 Masons Yard, Duke-street, St. James's, SW1 (No. 192); JOHN H. CHURCH, DipArch, ARIBA, and ANTHONY P. RICHARDSON, BArch, ARIBA, 46 Argyle-road, W8 (No. 216); and WILLIAM RYDER, ARIBA, AMTPI, 21 Bruton-street, Berkeley-square, W1 (No. 234).

Assessors' Comments on Winning Design

Over 1,400 architects and architectural students registered for the competition, and 252 sent in designs. The assessors, as they say in their report, were looking for an idea 'which is, and will be, most central to the whole intention of extending the National Galleries, that is to say the creation of a new series of spaces for exhibiting the national collections, in which there would be—in the words of the programme—" good visual conditions and generally enjoyable circumstances for the views "; a place, in other words, with a sense of occasion, complementary to the existing building, and not just a repetition of it. One design (No. 158) does precisely this. Its weaknesses, such as control and security, the size and planning of the service lift, and the stacking of cars in the basement, could be strengthened without spoiling the main scheme. Its virtues are that visitors are led through a series of interesting and differently proportioned galleries, rising gradually, on the pattern of a squared spiral, from the street to the level where Gallery VIII leads into Gallery XXV of the existing building, while carefully placed staircases allow the short-circuiting of this route. The arrangement is therefore extremely effective as well as flexible.' This design is estimated to cost £431,258 for 28,054 sq. ft. of galleries display and offices, and 46,976 sq. ft. for workshops, storage, parking, etc.

In addition to the five premiated and eight highly commended designs, the assessors recommend 48 designs for exhibition or publication, as they all possess features of interest. These 61 designs are on show at the Building Centre, Store-street, WC1, until Wednesday, June 24 daily (except Sundays) from 9.30 a.m. to 5.30 p.m. (Saturdays 1 p.m.).

The 48 recommended designs are by:

Alistair M. Bevington (New York); D. L. Mills (West Wickham); J. C. Moughtin (Singapore); George P. Bazuk (London, W1); David E. Horne (Toronto); Richard Padovan (Cobham); Z. Edward Kolek (London, SW15); Hugh R. Brady (London, SW7); Anthony Le M. Pearce (Leeds); Graham Law, J. Dunbar-Nasmith (Edinburgh); Stephen Rosenberg, B. Smith (London, NW10); James Hunter (Liverpool); Lawrence Baker (London, WC1); R. S. Johnston (Warwick); A. Artur (London, W5); M L. Edmonds, A. Poniatowski (Farnborough); R. Mountford Pigott & Partners (London, SW7); A. J. Forrest, J. W. Chalk, R. J. Herron (London, NW8); Ralph Brading (London, W11); Stephen Osgood (London, NW1); P. D. Cowan, H. P. Scher (London, NW8); Lawrence R. Pope (Hove); H. P. Trenton (London, NW3); M. J. Smith, R. S. Edmundson (Compton nr. Wolverhampton); Michael V. Buckingham (London, SW3); H. D. Krall (London, SW10); Philip Rogers (London, NW3); John F. Metcalfe (Bushey); Ian Lacey (London, W9); Leslie Parkinson (London, SW14); John A. Ashworth, J. Fletcher (Rochdale); Barbara Auld (London, W6); Roger Phillips (Bulford, Wilts); John E. Knight (Reigate); Peter Peretti, John Reeby (London, WC1); John L. Belle (Welwyn Garden City); Martin Hutchinson (London, WC1); Peter G. Cousins (Wantage); Arthur C. Gravell (Esher); Richard Smith (Bicester); Francis John Bancroft (Haywards Heath); Glyn Roberts (Harrow); N. Macfadyen (London, SE10); P. A. Hamilton, J. R Bicknell (London, W11); J. A. Griffiths, C. A. Wright (London, NW5); Graham W. Dickson, Brian Thaxton, Mary Thaxton (London, W14); Farmer & Dark (London, SW1); A. George, D. C. Davies, F. Webb (London, SW1).

Monument in Montevideo

THE COMPETITION JURY in the international competition for a Monument to Jose Battle Y Ordonez at Montevideo, Uruguay, met from March 5-7 to judge the first stage of the competition. 74 entries were submitted. The three teams selected to continue to the second stage are the following:—

No. 42. Jorge de Oteiza Embil, sculptor; Roberto Puig Alvarez, architect (Spain).

No. 54. Mario Romano, Carlo Keller, Gianpaolo Bettoni, architects; Cesare Poli, sculptor (Italy).

No. 65. Sanchez Elia, Peralta, Ramos, Agostini, Clorindo Testa, architects; Jose Fioravanti, Carlos de la Carcova, sculptors (Argentine).

In addition four further entries received an honourable mention.

'New Ways for London'

THE ASSESSORS in the competition organised by the Roads Campaign Council —Sir William Holford, Professor W. Fisher Cassie and Mr. C. D. Buchanan—have selected five schemes from the 54 designs entered for the re-design of London's road system. The five finalists, each of whom gains a prize of £250, are:

Dr. Boileau, G. E. Chadwick and D. F. Medhurst, Town and Country Planning School, The University, Manchester, 13; P. Brigham, G. E. Latter and B. McCartney, 4 Coalecroft-rd., SW15; I. W. Morrison, Doodlakime, Western Australia; J. A. Proudlove, Department of Civil Engineering the University, Liverpool; and W. K. Smigielshi, Eastbrook House, Rawdon, nr. Leeds.

The £250 prizes will be merged into the final awards of £2,000, £1,000 and £500 which will be made from these five entries at the end of the year. The assessors state: 'These five schemes are capable of development in the final stage and represent a very considerable effort on the part of the competitors to solve comprehensively and in a far-sighted manner an extremely difficult problem.' Final designs with models are due by October 30 next.

TOWN AND COUNTRY PLANNING ASSOCIATION

Planning Forum

AN ILLUSTRATED talk entitled 'Paris—The City Exemplar?' will be given to the Planing Forum by members of an LCC group who recently visited the city led by Mr. P. J. Marshall, ARIBA, AMTPI, at the Planning Centre on the evening of June 8.

Paris, a fine and beautiful city, famous for its spaciousness, wide boulevards, trees, parks, public buildings and sophisticated open-air life possesses tenements as dense, ill-lit, insanitary and decaying as any in London. The main topic of this talk is whether the redevelopment, which must start soon, can be done without destroying the essential character of this fine city.

The Planning Forum is arranging a cruise down the Thames by launch on July 18 to study the riverside redevelopment and planning schemes between Fulham and Greenwich.

THE DEVELOPMENT OF GROOVED LIGHTWEIGHT CONCRETE BLOCKS*

Recent Modular Work at the Building Research Station

By T. L. Carhart-Harris, BArch, ARIBA

This note will be of interest to the designer, the user and the manufacturer of lightweight concrete blocks. It states the reasons for introducing grooved blocks and describes briefly their design and development (making use of existing manufacturing sizes 18in. × 9in. × 4½in. or 3in.), the groove shape and the adaptation of existing production. From only one manufacturing length of 18in., any 3in. or 4½in. cut or their multiples can be made cleanly and accurately with two usable offcuts and thus walls can be built without waste to any 1½in. multiple of length and can accept any intercepting header of 1½in. multiples. The note goes on to describe present site practice in cutting concrete blocks and how the grooves allow easy and accurate cutting of the block while eliminating three of the four usual operations required to cut a block accurately.

GROOVED lightweight concrete blocks have been developed at the Building Research Station as a result of two aspects of the current modular co-ordination studies: (1) Co-ordination calls for components permitting the smaller dimensional increments without unnecessary fitting and cutting to waste; (2) the general experience in these studies showed a high degree of wastage, of either material or labour at present accepted in the industry, in cutting and fitting the conventional 18in. x 9in. block for normal requirements.

The object of the present study was to see if it would be practical to mark and groove blocks in a way that would allow easy and accurate cutting, to produce two or more useful sizes from each block without wastage of material or time and labour, and at the same time to meet the required degree of dimensional flexibility with one manufacturing size only.

It has led to the development of a grooved lightweight concrete block which appears to meet the requirements. This block considerably reduces the time and difficulty in cutting; it cuts accurately giving usable offcuts of co-ordinated sizes; it can work to the dimensional flexibility required and it eliminates three of the usual four operations required to cut a block. The principle and method of grooving seem applicable to any solid lightweight concrete block and to certain hollow-core blocks.

It is understood that the manufacturers' associations are actively interested and now, as is to be expected, await evidence that designers and contractors are too. At the time of writing, three authorities propose to use the blocks in the immediate future, and one manufacturer has agreed to supply them.

Designs of the Grooved Blocks

The present block (Fig. 1) has been designed with grooves positioned symmetrically at the half-point, the quarter-points, and ⅛-points to either side of the two quarter-points, to allow cuts of 3in., or 4½in. or of their multiples, to be made from the common manufacturing size block of 18in x 9in. x 3in. or 4½in. nominal, i.e. the existing sizes. This allows a block wall to be built to any multiple of 1½in. It also means that the wall can accept any intercepting header or thickness of 1½in. multiples, i.e. other partitions of 3in. and 4½in. as well as 1½in., 6in., 7½in., 9in., etc.

The pairs of sizes that can be produced by cutting the block once are:

3in. and 15in.
4½in. and 13½in.
6in. and 12in.
9in. and 9in.

Each half can be cut into either two 4½'s or three 3's and any whole block can be cut into four 4½'s or six 3's as coursing blocks.

Other special sizes could be cut if required, viz.: with two cuts

4½in., 7½in. and 6in.
4½in., 10½in. and 3in.

Only two thicknesses, 3in. and 4½in. nominal, are proposed at present as these meet the principal needs.

Common experience has often shown the 2in. thick block to be unsatisfactory for ordinary room partitions. Its initial cost is low, but overall economy can be prejudiced by the high proportion of the blocks broken in transport, handling and in cutting. On grounds of stability, accuracy and wastage, a 3in. block can give advantages that might make it as economical on overall costs when such factors are taken into account. In respect of sound insulation it is better. Partition blocks of less than 3in. thickness are assessed only on transverse strength (BS 2028: Type C non load-bearing partition blocks, thicknesses 2in. and 2½in.). Grooving reduces the transverse strength of these thinner blocks but apparently only by about 10-15 per cent with two $\frac{3}{16}$in. grooves out of a 2in. thickness. This might have to be compensated by additional strength of concrete.

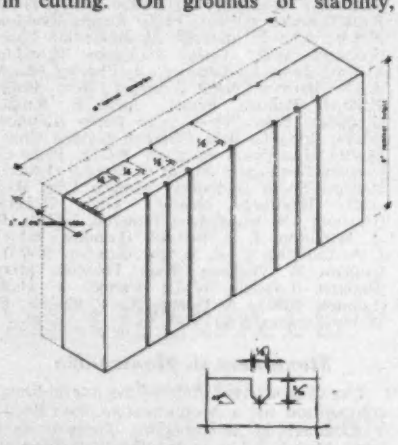


Fig. 1.—A standard block, actual size 17⅞in. by 8⅝in. by 4½in. Details of the groove are shown below. 4½in. or 3in. coursing blocks may be cut from a standard block without waste. 1½in. flexibility may be achieved vertically using 4½in. by 4½in. or 3in. by 4½in. laid to a vertical course of 4½in.

The lessening of the transverse strength would appear to be almost negligible in the 3in. and 4½in. thick block.

The inclusion of a 2in. thick block would also complicate the simplicity of the present pattern of grooving. This would require 2in. multiples to be cut in addition to the 3in. and 4½in. cuts, and the blocklayer would have to work to an increment of ½in. for accurate co-ordination.

Shape of Grooves

The most important factor for easy cutting was found to be the shape of the groove.

Several shapes were tried and the best is that shown (Fig. 1) where the groove is shaped to match the head of the bolster with which the cutting is done. The groove gives it a very definite and firm location, and when struck the bolster is driven deeper into the V groove, acting as a wedge and further facilitating the cutting.

Several types of lightweight aggregates have been used with equal success. It is thought that with large and denser aggregates the splitting action might not be as clean, but as the face edges are accurately moulded, and not cut, this should not be very significant.

Adaptation of Existing Block-making Machinery

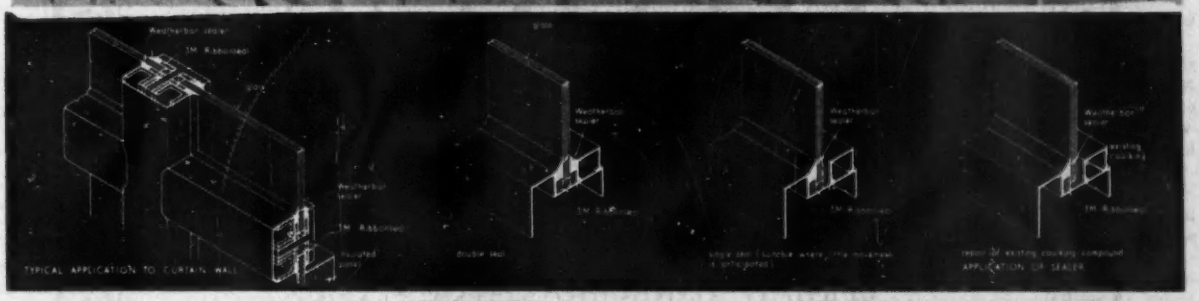
Adaptation of most types of existing block-making machines is a simple matter. Either appropriately shaped liners or mould plates may be used to produce the shape and size of groove described, or fillets can be fitted to the sides of mould boxes by tapping and using grub screws. Where this has been done it has been found advantageous to increase the width of the groove to $\frac{3}{16}$in. to facilitate tapping. Pallets and heads may also have to be notched on some machines.

In the long term, and as other related components are sized correctly, the fundamental requirement of modular co-ordination that no component, including its joint, should override the space allocated to it, should come into effect. This implies minus tolerances only, so that a nominal 18in. x 9in. block with a ⅜in. joint would be 17⅞in. x 8⅝in. $\pm^{0}_{\frac{1}{8}}$.

As regards thickness, the nominal 3in. and 4½in. are the spaces within which the actual thickness must be accommodated. Thus the actual thicknesses of the blocks should be 3in. and 4½in. minus the manufacturing tolerance and any erection tolerance needed. At present the BS actual sizes of 3in. and 4½in. ± $\frac{1}{16}$in. can

* Crown Copyright Reserved.

Time and exposure
have proved that
WEATHERBAN
BRAND
is a perfect and lasting
joint sealer
-particularly for
curtain walling



WEATHERBAN is one of the range of 3M adhesives and sealers for the building industry

WEATHERBAN is a two-part sealer specially compounded by 3M. After the addition of an accelerator it cures in situ and develops its permanent qualities, tenacious adhesion and high degree of elasticity making WEATHERBAN an effective and permanent weatherproof seal.

Weather Resistance: WEATHERBAN: has excellent resistance to ultra violet light, oxidation, solar heat and extreme climatic conditions. Service temperature -65° to 180°F.

Adhesion: WEATHERBAN possesses excellent adhesion to aluminium, glass, as well as other monolithic surfaces and unpainted wood. Typical tensile strength figures are 210 p.s.i. for colour black.

Flexibility: WEATHERBAN will stretch to over 300% and recover when stress is relieved.

Non-Shrinking: WEATHERBAN being approximately 100% solids, seals without shrinkage – containing no oils to evaporate.

Pleasing Colours: WEATHERBAN blends with buildings since it is available in standard colours—black, aluminium and tan. Other colours are obtainable.

3M APPROVED CONTRACTOR SERVICE *is available for the application of Weatherban where required.*

Copies of the full specification for the sealing of curtain wall structures can be obtained from 3M.

PRODUCT OF 3M RESEARCH

Made by MINNESOTA MINING & MANUFACTURING CO LTD • 3M House • Wigmore Street • London W1 • Hunter 5522

ALSO AT BIRMINGHAM EAST 2051 · MANCHESTER CENTRAL 1351 · GLASGOW CITY 6704

TBW/ADM2

BURMA PHARMACEUTICAL INDUSTRIES, RANGOON
James Cubitt & Partners, Architects

HOPE'S
SUN-BREAKERS

also

PRESSED METAL WINDOW WALLS
VERTICAL ALUMINIUM PATENT GLAZING
STEEL DOORS AND INTERNAL SCREENS
SKYLIGHTS AND WINDOW GEARING

HENRY HOPE & SONS LTD

Smethwick, Birmingham & 17 Berners Street, London, W.1
AGENTS THROUGHOUT THE WORLD

MEMBER OF THE METAL WINDOW ASSOCIATION

readily be accommodated, though preferably the 3in. size should be 3in. $\pm \frac{0}{8}$in.

Present Site Practice

Two methods of cutting lightweight concrete blocks are in common use.

The first is a 'hit or miss' approach. The block is struck by a hammer or other means to remove most of the material that is not required. The remaining piece is then roughly trimmed up to get as near as is necessary to the desired cut size. Usually no attempt is made to utilise the offcut. Often the whole block will shatter and is a complete 'write-off,' or it may crack or break along its weakest plane—often diagonally. With a poor-quality block such wastage may be very high; a high-quality block may be difficult to split at all in this fashion.

The waste material contributes to dirt and danger on the job, especially in multi-storey building. Either it is cleared up and disposed of as hardcore, or it is ingeniously and uneconomically fitted into the wall, often giving inaccurate work with wide mortar joints. The results are

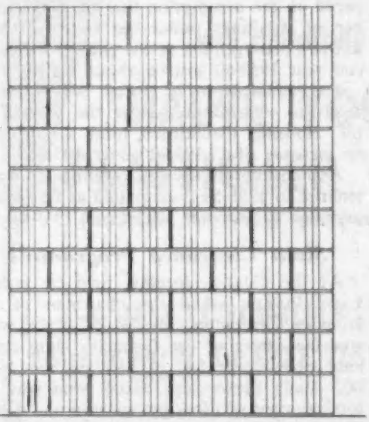


Fig. 2.—A partition constructed in 9in. lap preferred bond. 3in. or 4½in. (or other preferred thickness) partitions may be bonded in where coincidence lines are continuous. Quoins are similarly dealt with.

costly either in labour, time and efficiency, or in wastage of material, usually in both.

The second method, used by the methodical craftsman, is to cut the block with hammer and bolster. In order to do this with reasonable accuracy he has to:

(a) Measure the space that the cut block has to fill, or offer up the block for measurement.

(b) Measure and mark the block.

(c) Chip or scribe the block on all four faces to give location for the bolster.

(d) Cut the block with hammer and bolster, trimming up the block with a comb-hammer. (It is worth noting that except in special circumstances the craftsman intends to use only the one off-cut from the cut block and deliberately oversizes this slightly so that it can be trimmed down to give a reasonable face edge.)

Use of the Grooved Block

With grooved blocks the first three of these operations are eliminated:

(a) The bricklayer can readily recognise the dimensions on the blocks, both with regard to the block itself and the space to be filled in the wall.

(b) The grooves mark accurately the points of cutting.

(c) The groove eliminates scribing and chipping and provides a readily effective location for the bolster.

The cutting itself is facilitated by this location of the bolster in the groove, for it is otherwise inclined to jump diagonally if it strikes a hard piece of aggregate. The V-shaped bottom to the groove allows the bolster to drive deeper into the V and also develops the wedge action. The fact that the grooves are moulded into the block means that the face of the block is not cut and there is always a clean moulded corner to each off-cut. It also reduces the amount to be trimmed, since only large nodules of aggregate in the centre of the cut need trimming down.

Much time and effort are thus saved in cutting; both off-cuts are usable; the moulded face edges of the off-cuts are clean and accurate; there need be no undue waste of material; and a cleaner, safer and more efficient site will result. It also appears that the grooved blocks are a considerable help to the bricklayer in setting out his work.

It is not necessary here to go into the detailed use of off-cuts. In test walls at the Station it was found that the bricklayer could readily use the off-cuts to maintain his bond and take up the dimensional difference immediately adjacent to openings, corners and intercepting headers. The body of a wall, of course, is made up with the maximum number of whole blocks to a 9in. bond.

As designed at present the block can work to any multiple of 1½in. where necessary and can also accept the header of any other partition of 1½in. thickness or multiples, i.e. 1½in., 3in., 4½in., 6in., 7½in., 9in., etc. It can be bonded to the usual 9in. half-bond (Fig. 2) or if necessary to a 6in., 4½in., or 3in. lap bond.

Figs. 3 and 4 show examples of the grooved blocks, in this case of sintered fly-ash aggregate. In Fig. 4 the tools required for cutting are shown—bolster, hammer, and comb-hammer for trimming; the whole block is in the background with a 3in. thick block on the left and a 4½in. thick block on the right, each cut into a half-block of 9in. and two 4½in. offcuts; also shown are a 3in. x 3in. coursing block on the left, and a 4½in. x 3in. coursing block on the right.

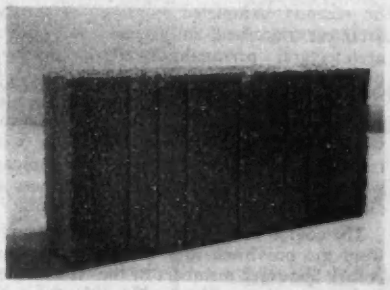


Fig. 3.—A grooved block of sintered fly-ash aggregate.

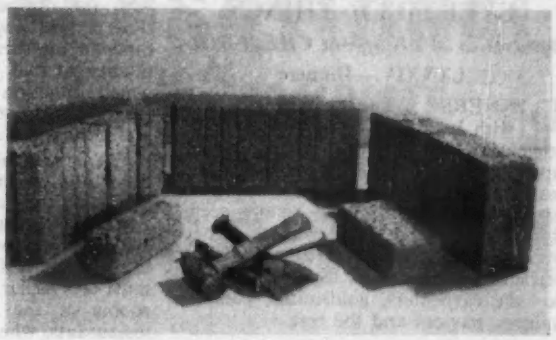


Fig. 4.—Examples of grooved blocks of sintered fly-ash aggregate, showing the tools required for cutting—bolster, hammer and comb-hammer for trimming.

The work described has been carried out as part of the research programme of the Building Research Board of the Department of Scientific and Industrial Research and this paper is published by permission of the Director of Building Research.

The author wishes to acknowledge the contribution to the development work made by Mr. Kinniburgh and Mr. Hodson of Chemistry Division, and by his colleagues in the Architect's Division.

BOOKS

POWER TOOL WOODWORKING. By Clifford T. Bower. (London: Crosby Lockwood and Son, Ltd.) Price 16s.

FOR the home workshop operator this book has much to offer and I would even say that a person who operates the industrial type of machine could also benefit from the material presented. Ways and means of adapting a powered tool for a particular job can often puzzle the best of operators, but here the simple jigs and fences suggested will widen the scope of the tools, especially that of the circular saw.

Regarding the circular saw, one would have liked to see more emphasis on safety and the use of the guard.

Part of the book is devoted to the details and construction of a number of household items. To carry out the jobs suggested, would alone give the home woodworker a feeling of great satisfaction.

The photographs and detailed drawings have been clearly reproduced to show without doubt particular points that the reader should observe in relation to the text. This book is certainly a worthwhile investment.

H. F. MARFLEET.

BOOKS RECEIVED

TRADE DRAUGHTSMANSHIP. By A. Edward Harvey. (London: B. T. Batsford Ltd.) Price 21s.

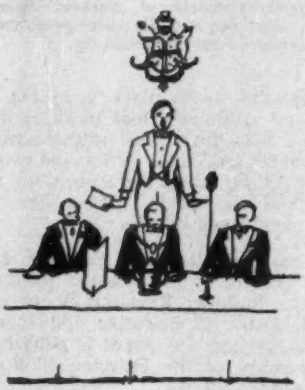
MITCHELL'S ELEMENTARY BUILDING CONSTRUCTION. Revised by Raymond Moxley, ARIBA. General Editor, Denzil Nield. (London: B. T. Batsford Ltd.) Price 18s.

EVERYDAY THINGS

By Arthur W. Kenyon, CBE, FRIBA

LXXXIV.—Dinners

DINNERS! What have they to do with building? It was not until the other day when I was being lavishly entertained at a builders' dinner that I realised that the building trade could not get on without them, and history seems to show, in fact, that it never has. There were always the Guild dinners where craftsmen used to meet together, and still do—the carpenters, goldsmiths, painters, stainers, paviors and the rest.



To-day we also have the foremen, clerks of works, architects and quantity surveyors and many other institutes and societies belonging to the building world, all holding their individual functions at which they entertain their friends and invite a guest of honour, often a Cabinet Minister, to address them on their craft and perhaps give them the latest titbit of information which has been saved up for the occasion.

What should we do without these dinners which give us the opportunity of boosting up our self-esteem by putting on our white ties and tails and showing off the orders which have been bestowed on us and the campaign medals awarded for bravery or boredom? This is the time when we may see noble lords, bishops, distinguished soldiers, their breasts crowded with glory, cabinet ministers accompanied by permanent secretaries, presidents of societies wearing elaborate chains of office accompanied by their official secretaries, all arrayed at top table and directed and controlled by that immaculate personage, the toastmaster, most lordly of all and without whom the occasions would sink into insignificance.

I often found myself wondering on these occasions which laundry the toastmasters patronise or which laundry patronises them, but this is no doubt a well guarded secret known only to their society, for they too have a society and a dinner, which again finds one speculating on who toasts the toastmasters.

From small beginnings, when a few skilled craftsmen met together in their own halls to exchange knowledge and partake of good cheer, these dinners have become the occasions we know to-day, with the different societies and institutions almost appearing to vie with each other in the size and extent of their hospitality so that you are never quite sure which function you are at until you receive the programme, for the same faces seem to appear at them all.

There are, of course, those pleasant exceptions when you return to those city halls with their dignity and splendour and gracious refectories where the proceedings are conducted with simple ceremony. But these are only for the few. The masses must forgather in the mighty dining rooms of the sophisticated hotels and restaurants, where the food is marshalled onto the tables with military precision and cleared after each course (fortunately now reduced to three) at the blast of a whistle at which the clatter becomes a deafening din, drowning conversation until it finally subsides for the next military operation, and the faint notes of the band can be heard meanwhile. The band always plays 'by kind permission of' somebody or other, and kind indeed it is of any musician to perform at all to such a clattering and chattering accompaniment.

We have reached the peak. When are we going to demand some sense of decorum at these mass dinners? When are we going to call for acoustic ceilings, and when are we going to receive personal service again instead of the canteen service which is now provided, and when are we to have a variation from the soup-fish-chicken-ice menus? Only when we insist on it. Who is to be the imaginative restaurateur who will rise to the occasion? No one, so long as we accept what is given to us.

But in spite of all this, these dinners do give us the opportunity of seeing, if not conversing with, our colleagues, and they offer a form of convivial good fellowship which we could not otherwise enjoy. Long may they continue.

ARCHITECTURAL ASSOCIATION

Summer School

IN A RECENT letter to schools of architecture in the UK, Mr. J. M. Austin-Smith, FRIBA, Hon. Secretary of the Architectural Association, gave details of a short summer school to be held in London from July 22 to July 30.

London has much to offer from an architectural viewpoint and the object of the summer school is to enable the student to visit buildings in the course of construction, or recently completed, together with the architect concerned, and to meet well known architectural personalities either in their offices or at the AA.

Mr. Austin-Smith states that no specific subjects will be discussed and no practical work will be undertaken. The course will take the form of an architectural holiday where the student can meet prominent architects and question them about their work.

The course will be limited to 20-25 students from the provinces who will be made temporary honorary members of the Association for its duration. This will entitle them to make full use of the facilities provided during their stay.

LCC

Housing Estimates, 1959-60

THE Housing Committee's estimates for 1959-60, presented to the London County Council on June 2, show a capital expenditure of £16,350,000, of which £2,750,000 is for the acquisition of land.

A sum of £12,500,000 has been included for the development of sites, and this figure covers the construction of roads and sewers, the provision of flats, maisonettes and houses, and ancillary work. A reduction of £2,285,500 compared with 1958-59 is accounted for partly by the smaller number of dwellings under construction and partly by the favourable tendering by contractors in recent months. The rest, £1,100,000, is for agency work under the Town Development Act, 1952, and allows for the partial development of areas at Haverhill (West Suffolk), Luton (Bedfordshire) and Thetford (Norfolk). This is the first time that a substantial provision has been made for this work and reflects the progress which is being made with the schemes.

The maintenance estimates have been prepared on the assumption that the total number of dwellings under the Housing Committee's management at the end of the financial year 1959-60 will be about 204,460.

The amounts to be voted which relate solely to expenditure under the control of the Housing Committee total £20,089,355, an increase of £1,193,220 over 1958-59.

Annual expenditure per dwellings on maintenance in 1958-59 is estimated at £25 and is expected to increase slightly in 1959-60.

Slum Clearance Programme

AT the Council meeting held on June 2 LADY PEPLER asked the chairman of the Housing Committee, Mr. W. G. Fiske, what was the extent of the Council's slum clearance programme for 1951-60 and for 1956-60. Lady Pepler also asked what was the total number of dwellings vacated and demolished under these two programmes.

In answer to the first question, MR. FISKE stated that the numbers of unfit houses in the two five-year programmes were originally estimated to be 6,850 and 4,100. Although separate records for the two programmes were not kept, in both cases detailed inspections of areas frequently revealed larger numbers of unfit houses than was at first estimated. As a result areas had been added to the programme from time to time.

Mr. Fiske continued: 'The figures reported to the Council each quarter reflect these increases and include priority and other areas commenced before 1951 together with houses in "added lands" in all post-war schemes. The total number of dwelling is therefore about 19,750 and the position at March 31, 1959, was 10,747 dwellings vacated of which 8,514 have been demolished.'

Mortgage on RIBA Building

IN THE report of the RIBA AGM, given on page 891 of *The Builder* for May 15, an error was made in the reported statement by the Hon. Treasurer, Mr. E. D. JEFFERISS MATHEWS, OBE, FRIBA, ARICS, about the mortgage loan for the completion and additions. The report states '... the remaining £70,000 on a twenty-year mortgage with amortisation of increasing liability.' It should have been 'decreasing liability.'

Double strength

F&E

THE MORTAR PLASTICISER

will definitely

HALVE YOUR PLASTICISER COSTS

(Example: Net cost ¼D per cwt. of mortar)

★ TEST IT YOURSELF - Send the Coupon NOW for FREE TESTING SAMPLE

★ PROVE POSITIVELY its outstanding quality and amazing economy in use.

POST THIS COUPON NOW

To: ASSOCIATED BUILDING PRODUCTS LTD.
NORTH MILLS, FROG ISLAND, LEICESTER
Telephone: Leicester 59696

Send me free sample of DOUBLE STRENGTH F & E.

NAME _____

ADDRESS _____

34

SENSATIONAL

New COMPLETE treatment for

WOODWORM

KILLS
FILLS HOLES
RESTORES
PROTECTS
and
FUMIGATES
WITHIN

and so easy too

No Smell
No Mess
No Sprays
No Skill

The greatest advance of the century in Woodworm control

SOLITOX

WOODWORM FILLER-KILLER KIT

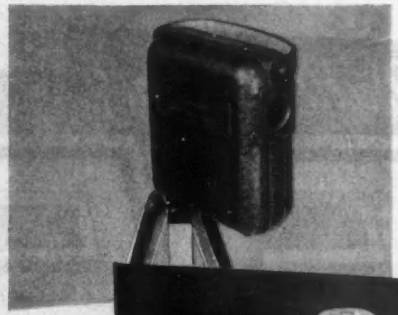
Whether Cottage or Castle or Church, whether furnishings simple or magnificent, SOLITOX completely eradicates woodworm, prevents re-infestation, restores appearance, strength and value . . . easily and safely.

Household kit . . . 17/6
Builders kit . . . 5 gns.

From your local store or direct or send for literature

ASHE LABORATORIES LTD. (Dept. T)
LEATHERHEAD · SURREY

Site layout for the builder



Two easy-to-use and inexpensive tools for levelling and squaring

THE COWLEY LEVEL automatically gives a level line of sight. There is no "setting up" procedure as with other levels and it is easy to use. Accurate to ¼ in. at 100 ft. it replaces the dumpy level for ordinary site work.

THE SITESQUARE will set out a right angle in two minutes or less. It is accurate to ¼ in. at 100 ft. and has a range of over 300 ft. Like the Cowley Level it is reliable and easy to use.

Write today for illustrated literature.

COWLEY LEVEL DEPT. HILGER & WATTS LTD.
123 CAMBERWELL ROAD, LONDON, S.E.5.

☐ Please forward literature
☐ Arrange a demonstration at no obligation to myself.
☐ Send me address of nearest stockist.

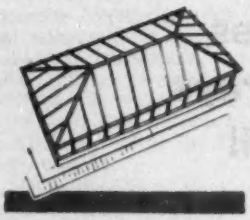
Please mark appropriate square and send to Cowley Level Dept., Hilger & Watts Ltd., 123 Camberwell Road, London, S.E.5.

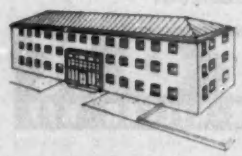
NAME.....
ADDRESS.....
.....SP/2/8

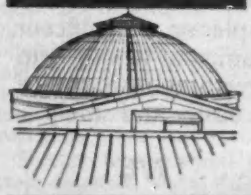
Cowley Level with tripod, staff and target **£18**

Sitesquare £18

Leather case for each instrument £2.10.0







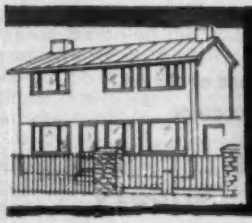
Why not I·C·I COPPER?

No need to shout—housetops in I.C.I. copper speak for themselves. Architects commend its elegant appearance; roofing craftsmen approve its workability; householders like the long trouble-free service it offers. Expensive? By no means. Copper roofs have always paid their way in the long run. Now, thanks to cheaper copper and to more economical fixing techniques, they are well within the budget for most building projects.

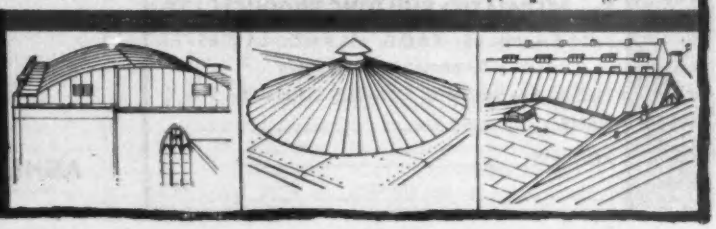
Write to us for details of our production range and quick delivery service.

IMPERIAL CHEMICAL INDUSTRIES LIMITED, LONDON, S.W.1

I.C.I. METALS DIVISION



I.C.I. Copper sheet and strip for roofing, flashings and weatherings



C.T44

STANDARDS FOR SCHOOL PREMISES

New MoE Regulations on Planning and Cost

Revision of the standards for School Premises is made in SI 1959/890 ('the Standards for School Premises Regulations, 1959,' HMSO, price 9d.) the provisions of which came into force on May 27. A summary of these provisions is contained in Circular 3/59 (HMSO, price 4d.) some extracts from which now follow. In a second Circular, 4/59 (HMSO, price 6d.) the consequential alterations in the current arrangements for costing new schools, instalments of new schools and extension projects are noted.

We comment on the regulations in a leading article this week.—*Editor.*

CIRCULAR No. 3/59 points out that the Minister stated, in paragraph 3 of Circular 342, that the 1954 regulations were under review, but that, in the revised regulations to be published, standards of accommodation and the limits of cost currently in force would not be significantly affected. Now that the revised regulations have been made, this will be found to be the case. Since the 1954 regulations were made, however, more varied forms of organisation have been developed in schools, particularly in secondary schools, and the task of bringing old buildings up to present-day standards has assumed greater prominence.

The principal aim of the new regulations is to give the necessary flexibility in minimum requirements which these developments make desirable, while at the same time maintaining adequate educational standards. The opportunity has also been taken of amending or clarifying certain regulations which experience has shown could be improved and of adding a limited number of new conditions which educational buildings should satisfy but which have not previously been mentioned.

The sizes of school are defined in the new regulations in terms of numbers of pupils rather than numbers of classes or form entries. This change, combined with the revision of minimum teaching areas, necessitates changes in the method of calculating limits of cost. The new costing arrangements are set out in Circular 4/59. Building Bulletin 2A is being revised to take account of the changes in the requirements for secondary schools and to amend certain recommendations in the light of recent experience; it is hoped to publish the new edition of this Bulletin later in the year. Other points from the circular are:—

Measurement of Areas.—In future, minimum areas of accommodation in both existing and new schools, will be measured from the internal faces of external walls to the centre line of internal walls and partitions. Where necessary, the minimum areas prescribed in regulations have been adjusted to allow for the new method of measurement.

Primary Schools

Paved areas.—The needs of infants and juniors for paved areas for outdoor activities have been carefully reviewed and it is intended, in due course, to give comprehensive guidance on the subject. Dimensions of paved areas are not prescribed by regulation, but authorities and architects are asked to bear in mind, when planning schools, that the minimum paved areas were obtained from rectangles of the dimensions shown below:—

Area prescribed in Regulations (sq. ft.)	Derived from rectangles with the following dimensions (ft.)
3,200	80×40
4,500	90×50
6,600	110×60
11,100	110×60 and 90×50
12,100	110×110
13,200	110×60 and 110×60
18,700	110×110 and 110×60
24,200	110×110 and 110×110

Minimum teaching area.—Regulation 5 has been divided into two parts, the first dealing with the minimum teaching area of the school as a whole and the second with the number and sizes of individual teaching spaces. The first part sets out formulæ which enable minimum area to be adjusted more closely than hitherto to any particular number of pupils for which a school is required to be designed. The areas for schools for 70 and 100 pupils have been somewhat reduced, but those for very large schools are generally bigger mainly because these schools will sometimes need two halls. The requirement that infants' schools shall have a hall has been re-introduced for schools with 100 or more pupils. The second part of the regulation is intended to ensure that school premises provide sufficient teaching spaces to allow pupils to be taught in reasonably narrow age groups.

It will be noted that a school for a given number of pupils will have the same minimum teaching area irrespective of the number of classes in which it is organised; where there are more classes, there will be more though smaller teaching spaces, but rather less area will be needed in the hall or other large space for physical movement as the groups using it will be smaller. For example, a school for 120 pupils might be organised in either three or four classes and in each case the minimum teaching area will be 3,360 sq. ft. In the former case, each teaching space for 40 pupils will be a minimum of 540 sq. ft. in area and 1,740 sq. ft. will be available for a hall in which groups of 40 will take classes in physical education, music and drama, this type of school being more generously treated than previously. In the latter case, each teaching space for 30 pupils will be a minimum of 500 sq. ft. in area and 1,360 sq. ft. will be available for a hall, which will be adequate for groups of 30 as well as for the assembly of the whole school.

Secondary Schools

Hard areas.—In future, these may be either hard paved or hard porous. Increases in areas beyond 600 pupils are more gradual than previously.

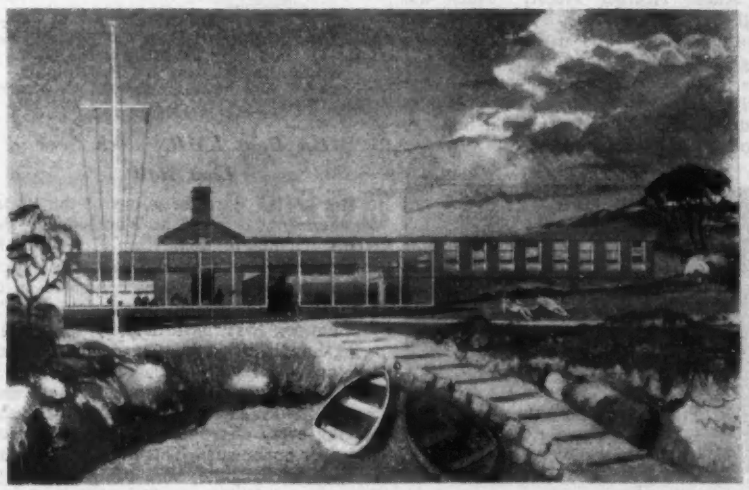
Minimum teaching area.—Regulation 17 recognises the greater need for teaching area in the fourth and fifth forms, as well as in the sixth form, owing to the smaller groups in which teaching normally takes place and the more specialised nature of the practical work. It will be noted that the areas per pupil specified in the table in Regulation 17 are reduced as the number of pupils increases. In order that the results should be as equitable as possible over the whole range of sizes of school, the reductions have been more finely graded for very large schools (an allowance of 0.1 of a sq. ft. involves an adjustment of 180 sq. ft. for a school with 1,800 pupils).

The following example shows how the regulations should be used to determine the minimum teaching area for a school designed for an entry of 120 pupils a year at 11 plus with 120 pupils in the sixth form:—

School has 600 pupils in the first five years of the course provided and therefore falls into the 451-680 category. There will be:—

360 pupils ages 11-13 at 44 sq. ft. each	=15,840 sq. ft.
240 pupils aged 14 and 15 at 47 sq. ft. each	=11,280 sq. ft.
120 pupils aged 16 and over at 50 sq. ft. each	= 6,000 sq. ft.
Total	33,120 sq. ft.

Adjustments to minimum teaching areas



RA Exhibition, 1959 Drawn by J. A. Strubbe

Hotel Tresco, Isle of Scilly. John A. Strubbe, Architect.

and allowances of cost places will be made where some pupils are expected to leave before attaining the age of 16.

Since the last regulations were devised it has become normal for a secondary technical school to develop a strong sixth form on lines not greatly different from a grammar school. Moreover, the increase in range and quality of the work in the subjects of general education has frequently led to a reduction in the use of workshops and other practical rooms. These and other developments are reducing the differences which previously existed between the accommodation needed by various types of secondary school. They were borne in mind in making the decision to increase the minimum allowances of teaching area for the senior age groups and in omitting the proviso in Regulation 17 of the 1954 Regulations regarding the teaching accommodation of schools providing technical, commercial or art education. In all normal cases, it should be possible to provide the range and amount of accommodation which a school needs within the framework of the new arrangements for calculating minimum teaching areas and cost limits.

Accommodation for Meals.—Regulations 14 and 27 have been revised so that the accommodation required for dining is more precisely stated. It is not intended to make a change in the policy that there should normally be dual use of accommodation for dining and for teaching or other purposes, but it is important that such accommodation should be designed with dual use in mind, and should not be required for purposes other than dining for a reasonable period before and after mealtimes. Regulation 27 includes a new requirement that dining shall not take place in a gymnasium or hall-gymnasium. Regulations 13 (1) and 26 (1) have been widened to include storage facilities for furniture, mainly with school meals furniture in mind.

Limits of Cost

The Standards for School Premises Regulations, 1959, prescribe revised minimum areas of teaching accommodation for most sizes of primary and secondary schools. These changes, states Circular No. 4/59, involve consequential alterations in the current arrangements for calculating the limits of net cost. This circular explaining the revised arrangements for costing new schools, instalments of new schools and extension projects; it is hoped, in due course, to deal similarly with projects involving the remodelling of old premises.

There is ample evidence that at the present time schools which satisfy the requirements of the Building Regulations and which are of good quality of construction and finish can still be built within the current limits of net cost per place. Until further notice the limits of net cost per place will remain as follows:—

	Limit of net cost per place	
	With scullery only	With kitchen
	£	£
Primary schools ..	150	154
Secondary schools ..	260	264

The opportunity is, however, being taken of adjusting, in the light of experience gained over recent years, the allowance of cost places so that the total resources available are divided more equitably over schools of various types and sizes.

The National Federation XI.—Front row (from left): A. Longman, S. F. S. Hearder (former Director), Mrs. Hearder, J. A. Bird (captain), Mrs. Prosser, Mr. T. V. Prosser (President), F. Vidler, R. W. Triggs. Back row: P. J. Flitton (umpire), A. Cload, F. R. Hitchins, V. R. Blake, M. Ruffell, J. Sellers, Vernon Leader and R. T. Nickless

CRICKET

Vitruvians and National Federation Draw High-scoring Game

THE annual match between the Vitruvians (the technical Press XI) and the National Federation of Building Trades Employers, played at Richmond on June 4, was left drawn. The builders, batting first, ran up a total of 229 for three, Longman and Vidler finding no difficulty on an easy-paced wicket against the journalists' attack, until at 130 Longman mistimed an intended hit for six. Drew picked up a neat catch to dismiss Vidler and wickets began to fall more regularly though the bowlers got no help from the wicket. Left with 125 minutes to get the runs, the Vitruvians soon lost Hirst to a beautiful ball from Bird (the only clean-bowled wicket of the day) and Goater, after showing a touch of his class, was caught trying to hurry things along. Gardiner, who went on to complete a faultless century, and Patrick then added 73 for the next wicket and Gardiner and Drew were together when the end came. The Vitruvians thus retain the 'Jeanne Hearder Trophy' which was thoughtfully filled by Mr. Tom Prosser, the National President and passed round as a loving cup at the end of the game. Afterwards both sides and the visitors were royally entertained by Mr. and Mrs. Stanley Hearder in their home, a splendid finish to a good day's cricket.

The President and Mrs. Prosser with the National Federation opening batsmen, A. Longman (left) and F. Vidler

NFBTE Innings

A. Longman, lbw b. Drew	55
F. Vidler, c. & b. Patrick	74
R. Triggs, c. Drew b. Hirst	21
V. R. Blake, run out	12
R. T. Nickless, not out	20
V. Leader, lbw b. Hirst	1
J. Sellers, not out	32
M. Ruffell, F. R. Hitchins, A. Cload, J. A. Bird — did not bat	
Extras	14
Total (for 5 wkts. declared)	229

Vitruvians Innings

R. C. Hirst, b. Bird	0
J. R. Gardiner, not out	102
A. Goater, c. Vidler b. Ruffell	6
T. Patrick, lbw b. Blake	32
A. J. Drew, not out	11
R. D. Mudie, R. Dowson, A. Barnett, R. Binfield, I. M. Leslie, W. A. K. Faldo — did not bat	
Extras	13
Total (for 3 wkts.)	164

Bowling. Vitruvians: Hirst 2 for 53; Drew 1 for 36; Patrick 1 for 23. NFBTE: Ruffell 1 for 42; Bird 1 for 33; Blake 1 for 23.
Umpires: L. McCarthy and P. J. Flitton.
Scorers: Miss M. Fishburn and C. Moisey.

RIBA Beat LMBA with Second Last Ball

THE LMBA were the guests of the RIBA for their annual match at Wimbledon. The RIBA, having in their team Colin Smith, formerly of Cambridge and Lancashire, took the gamble of putting their opponents in to bat. F. Vidler played a fine innings of 117. W. Lawson was unfortunately injured in being bowled at 51, A. Cload made 49 not out, and the LMBA declared at 249 for 3. The RIBA replied in confident mood, and the end was exciting, with the architects making every effort to beat both the clock and their opponents. This they did with the second last ball, the score being 250 for 6. Batty scored 56, Beeston 30 and Colin Smith and Norton were not out with 77 and 34 respectively.

MAGNET FOR THE OUTSIDE WHERE PAINT MUST DO MORE THAN DECORATE

FOLLOW THE MAGNET MAINTENANCE PLAN FOR LASTING PROPERTY PROTECTION

The Magnet Maintenance Plan provides the maximum protection for 5, 8 and 10 year periods, for the outside of property in town, suburb and country. Adherence to the Plan builds up a protective film of Lead Paint which prevents serious deterioration if later re-painting is delayed.

ASSOCIATED LEAD
MANUFACTURERS LIMITED

CLEMENTS HOUSE, 14 GRESHAM STREET, LONDON, E.C.2.
CRESCENT HOUSE, NEWCASTLE-UPON-TYNE.
LEAD WORKS LANE, CHESTER.

'Yoicks!' said Baron Rabbit M.F.H. 'Thought the huntin' was good today.'

'Oh yeth, Baron', lisped a young lady rabbit. 'But somehow I feel sorry for the foxes.'

'Tsk tsk', said the Baron. 'They enjoy it. Besides, it's an old tradition – as old as – as – as that Salt Glazed Clay Drainpipe over there! Served as a saddle rail at countless Hunt Balls – been in the family for ages. Understandable, of course; it's strong, impermeable, resistant to all common acids, can't be scratched by grit–'

'You sound like a salesman for Salt Glazed Pipes, Baron!' pouted the young lady rabbit.

'Well, I am in a way, y'know', replied the Baron.

Salt Glazed Clay Pipes–for drainage, for ever

NATIONAL SALT GLAZED PIPE MANUFACTURERS' ASSOCIATION

WARM-FLOOR HEATING AND WOOD FLOORS

Timber Development Association Experiments

WARM-FLOOR HEATING is growing in popularity and is often installed as a service in new houses and flats, states the Timber Development Association. First cost may be a little high but users are attracted by the reported savings in running costs.

The full benefits of low temperature heat diffusion are realised when the under-floor system is associated with wood block or wood strip flooring but it is vital that installation should be carried out by those who thoroughly understand the job.

In general, wood is a tolerant material and gives little bother in a building if its moisture content or degree of dryness corresponds with the relative humidity of its new environment. If the moisture content is in balance with the atmosphere, shrinkage or swelling will be slight. But requirements deemed adequate for joinery, furniture and unheated floors do not fully meet the more exacting conditions associated with under-floor heating. Study of wood's behaviour must be carried a little further.

Before he can start work, the flooring contractor will want information on a number of key points. First he must know what kind of heating system is planned and whether hot water or embedded electrical elements are the heat source. He must be told whether the floor is suspended or direct to earth and if direct to earth what sort of damp proof course has been provided below the screed. He must also be given details of the temperatures involved—the estimated maximum temperature at screed level and the temperature at the level of the finished wood floor.

Finally, the contractor will want to know the depth of screed over the heating elements and the dates when the concrete and screed were completed, so that he can assess the dryness of the base on which the wood block or strip is to be laid.

Information of this kind will help the contractor to provide a wood floor sufficiently stable to withstand the somewhat unusual conditions created by direct contact with the heat source. Once the site conditions are known, he will be able to advise the home owner about the choice of timbers. Not all woods, even well-tried favourites used in conventional hardwood flooring, are suitable for panel heated floors.

Experience has shown, for instance, that beech, maple, birch, jarrah, karri, ekki, gurgun, keruing and ekhimi—all good flooring timbers in the appropriate conditions—are best excluded from heated floor applications.

Other timbers, by virtue of their relative freedom from movement in response to changes in atmospheric humidity and temperature, give an exceptionally fine performance. These include teak (Tectona grandis), missanda, iroko, muhuhu, muninga, panga panga, Rhodesian 'teak' and African mahogany. Other timbers which have given satisfactory service, though experience of them in panel heated floors is limited, include agba, opepe, guarea, white seraya, banga wanga, idigbo, afzelia, afrormosia, niangon and sapele.

Bonding preparations for panel heated wood floors require careful selection and the Timber Development Association recently carried out a series of laboratory experiments to find out which adhesives offer the greatest restraint to movement in the special conditions of local heating. The general conclusion reached is that some of the materials normally used for sticking down floors—bitumen mastic for example—are unsuitable for bonding wood floors to heated screed.

The importance of site organisation cannot be too strongly emphasised. Wood should be given fair play at the outset. Screed should be laid three to four weeks before the heating is switched on and, once installed, the heating system should be run for short periods daily until maximum operating temperature is reached. Maximum temperature should be held for a week before the wood flooring is laid.

HELIPORT AT BATTERSEA

Minister Rejects Proposal

MR. HENRY BROOKE, Minister of Housing and Local Government, has rejected a proposal to build a permanent Thames-side heliport at Brunswick Wharf, Nine Elms Lane, Battersea. A public inquiry was held on February 25 into an appeal made on behalf of Rotorports Limited against the failure of the LCC to give a decision, within the required time, on their application for permission to build the heliport.

A letter announcing the Minister's decision says:—In his report to the Minister the inspector said that he was satisfied that the site was unsuitable for the establishment of a heliport, even temporarily, because the noise of helicopters arriving and departing would be detrimental to the amenities of people living in the densely populated area on the north bank of the Thames opposite the site. He recommended that the appeal be dismissed. The Minister is satisfied that the value of a second heliport at the present time would not be such as to justify the disturbance referred to by the inspector. He has therefore decided to accept the inspector's recommendation and to dismiss the appeal.

LMBA

LMBA Handbook

THE LMBA handbook for 1959 has now been issued. The new edition contains information on labour and contract matters, government departments, public authorities and publications together with some useful memoranda. (Price 7s. 6d.)

A booklet entitled 'Working Rule Agreement' containing supplemental notes for the building industry in the London district, has been issued by the London Regional Joint Committee of the National Joint Council for the Building Industry. The committee have also published a guide to safety regulations which is set out in the form of question and answer. Both these booklets can be obtained from the Secretary, LMBA, 47 Bedford-square, London, WC1. (Price 6d. and 3d. respectively.)

OBITUARY

John Batty, CC, FRIBA

WE MUCH REGRET to record the death, on June 5, of Mr. John Batty, FRIBA, CGIA, past chairman of the Improvements and Town Planning Committee of the Corporation of London. He was 66.

John Batty spent most of his working life as an architect and surveyor in the City, practising from the Minories, latterly in partnership with his son, Mr. J. G. Batty. His knowledge and love of the City, and his professional experience, made him a most useful member of the Corporation to which he was first elected in 1937. This was recognised by his election, in 1951, as chairman of the Improvements and Town Planning Committee, a post to which he was re-elected four times. The committee and the Court of Common Council were fortunate in having a man of his experience and equable commonsense at a time when so much structurally of moment was taking place within 'the square mile.' He was chairman in 1945 of the General Purposes Committee.

To his widow and family will be extended great sympathy; the profession and the City have lost a man whose distinguishing features were always ability, benevolence and integrity.

S. W. W. Delves, FRIBA

The death has occurred, on June 2, of Mr. Stanley W. W. Delves, FRIBA, of 32 Molyneux-park, Tunbridge Wells, Kent.

COUNTY COUNCIL'S BUILDING PROCEDURE

Notts to Negotiate Tenders on 'Master Bill' Basis

NOTTINGHAMSHIRE COUNTY COUNCIL is to carry out a programme of building work estimated at £2,000,000 in 1959-61 financial period on a negotiated tender basis with two contractors.

The County Architect, Mr. W. D. Lacey, ARIBA, MTPI, informs us that the County Council decided recently to invite competitive tenders for projects in the CLASP system of construction to be started during the financial years 1959-60 and 1960-61. The overall value of work involved in this programme is approximately £1,000,000 per annum and, although the major portion of the programme involves the erection of schools, other County buildings (Libraries, Home for the Aged, Fire Station) are included.

Invitations were forwarded to sixteen contractors who were asked to submit in competition a tender for a typical new school based on a bill of quantities where the specification and descriptions were correct, but the quantities were approximate only. The prices in the 'Master Bill' would then form the basis for negotiating tenders for the various projects in the programme.

On the results of the tenders received, the County Council has given authority to the County Architect, subject to the approval of the various committees concerned, to allocate projects and negotiate tenders with Messrs. J. Searson Ltd., of Sutton-in-Ashfield, and Messrs. G. A. Pillatt & Son Ltd., of Nottingham, the lowest and next lowest tenderers respectively, on the basis of the rates contained in the lowest tender.

NEWS IN BRIEF

Credit for Builders

BUILDERS and contractors increased their borrowing from the banks in the six months August, 1958-February, 1959, following the relaxation of the credit squeeze, by £138m., or 23 per cent, according to *Bulletin for Industry*, issued by the Information Division of the Treasury. Personal and professional borrowers, retail traders and HP finance companies took more than half of the increase. Food, drink and tobacco industries increased their borrowings by 20 per cent and other industries by 11 per cent.

Unemployment During May

The total number of unemployed persons engaged in building and contracting at May 11 was 56,794, a decrease of 7,147 compared with April 13, states the Ministry of Labour and National Service.

Woodworkers' Wages

The Amalgamated Society of Woodworkers instructed their executive at their conference at Aberdeen on June 2 to do all in their power to secure a substantial wage increase. An attempt to add a political rider to the resolution was condemned as seeking to misinform the public about labour wages policy.

Accident Prevention Report

The annual report by the accident prevention advisory committee of the Cement Makers' Federation for the year 1958 has been issued. The total number of accidents, states the report, for 1958 is down to 254, as against 332 in 1957, a reduction of over 23 per cent. Copies from the Federation at Terminal-house, 52 Grosvenor-gardens, SW1.

Packaging Exhibition

The Council of Industrial Design, in association with the Society of Industrial Artists, is arranging an exhibition of British packaging to be held at the Design Centre. All types of package in current use, which have a design application, are eligible for consideration, and manufacturers, designers and advertising agents are invited to submit packs to the Council of Industrial Design, The Design Centre, 28 Haymarket, SW1, marked 'Packaging Exhibition.' The complete pack should be sent in each case. The closing date for submissions is July 31 next.

Unfit Houses in Northern Ireland

Of a total of 376,324 houses in Northern Ireland, 53,722 are non-repairable. These figures are given in a Command Paper which summarises a housing survey carried out by local authorities in Northern Ireland and the proposals of local authorities for dealing with unfit houses. The Command Paper goes on to say that in order to set in perspective the size of the task of rebuilding it may be pointed out that the round figure of new dwellings required to replace the totally unfit and unrepairable houses (50,000) is about the same as the total of new houses built by local authorities and the Housing Trust since the war.

House Purchase and Housing Act

A comprehensive booklet, entitled 'Is There a Bathroom in the House?' has been produced by one of the leading bath manufacturers in the country as an aid to understanding the new legislation on housing.

This illustrated booklet is available from builders' merchants, hardware dealers, Town Halls and Civic Centres. In straightforward language it explains how under the new House Purchase and Housing Act an obligation is placed upon local authorities to make 'Standard Grants' for the provision of a bath, a wash hand-basin, a hot water supply, a water closet and satisfactory food storage in houses which lack these amenities. Copies are also obtainable from Bilston Foundries Ltd., Bilston, Staffs.

CoID Appointment

The Council of Industrial Design has appointed Mr. W. H. Mayall as industrial officer for the engineering industries. He takes the place of Mr. L. A. Grosbard, who has now joined Mullard Ltd.

TRADE NEWS

Aluminium Cladding Exhibition

THE British Aluminium Company is holding an exhibition, from June 15 to 20, in the Old Horticultural Hall, Vincent-square, Westminster. The main product to be shown is the new Rigidal Seamwall cladding. This consists of 12-in. wide panels up to 30 ft. high with a bold profile to give added interest to large-scale industrial buildings.

At New Premises

The Carter Group of Companies announce that they have acquired new premises to provide improved working facilities for Carter & Co. London Ltd. at 157 Clapham-road, London, SW9, and for the Marbolith Flooring Co. Ltd. at 159 Clapham-road, London, SW9. The telephone numbers remain unchanged at Reliance 1471 and Reliance 2062 respectively. The complete offices and works of these two companies have been transferred from 20 Albert Embankment, London, SE11, and are now fully functioning at the new addresses.

PERSONAL COLUMN

Bartrev Board Company Ltd. announce that MR. C. M. BUSSY has been appointed a director of the company. Mr. Bussy, who was formerly general manager, will continue in that capacity. The company also announce that MR. I. L. CARR has joined the company as sales director, and that MR. P. A. STOCKEN has been appointed sales manager in place of MR. P. BLANCHARD-COLE who has left the services of the company.

MR. PETER R. DAVIS, publicity manager for Jack Olding & Co. Ltd., Hatfield, Herts, has resigned from the foresaid position.

MR. R. W. REED, UAM group area sales manager in Birmingham, retired on May 30. He is succeeded by MR. H. J. BLOWER.

Cook and Company Ltd., constructional engineers and contractors, Alexander-hse., 62 Clapham-rd., SW19, announce the appointment of MR. ARTHUR EDWARDS as Director and Chief Executive to the company.

COMPANY NEWS

Mellowes, Ltd., recommend payment of a final dividend of 12½ per cent (less tax) on the shares of the company for the year ended December 31, 1958.

Acrow (Engineers) Ltd. have declared a second quarterly dividend of 10 per cent (less tax) on the ordinary and 'A' ordinary shares for the year ended March 31, 1959.

INCREASING MANAGERIAL EFFICIENCY

Contractors Helped by Industrial Psychology

A GROUP of firms engaged in industrial development and contracting have increased their managerial efficiency in recent months with the help of the National Institute of Industrial Psychology. Faced with organisational problems, the C.A.S. Group asked the Institute to conduct an 'attitude survey' among their managerial and office staff last summer. This is an inquiry in which skilled investigators invite managers and employees to say what they think is good and bad in their firm and how what is wrong could be put right. The comments are analysed and the Institute makes recommendations for appropriate changes.

The principal firms in this Group are an industrial development company and a contractor company. Although there was a great spirit of loyalty to the Group the investigator found that the staff of the contractor company were under the impression that theirs was the 'Cinderella' of the enterprise; this feeling of insecurity and lower status had been among the causes leading to a higher turnover of staff than was desirable, especially at senior executive level.

In the industrial development company the chairman of the Group took a very active part in administration and worked at very high pressure; there was some degree of anxiety lest he should overwork himself and there were suggestions that authority was not sufficiently delegated. The top management were fully aware of the desirability of delegation but were uncertain about timing and extent.

The investigator also discovered that the clerical system, which had been designed for complex and expensive jobs, was unnecessarily elaborate for the smaller ones. There was also some discontent that a profit-sharing scheme had been allowed to fall into disuse and it was suggested that the efficiency of the contractor company would be improved by the acquisition of a bigger and better builder's yard.

It was shown that delegation could be safely undertaken on a wide scale, and as a consequence authority is now more delegated and separate boards for each company have been formed; a firm of consultants has been brought in to improve the accounting methods.

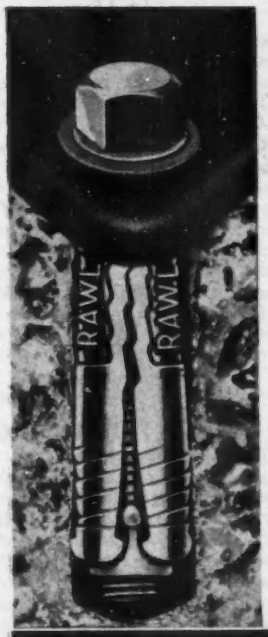
Clerical procedure has been simplified and the contractor company is now the object of much closer attention and interest on the part of the Group's top management, and has got a builder's yard. The profit-sharing scheme, which had never been really appropriate for the firm's business, has been finally abandoned. It had proved in practice singularly difficult to operate in the building and civil engineering industry, where labour turnover is unavoidably high. The NIIP recommended that it should be superseded by a bonus system and this recommendation is being followed.

The management, states the Institute, are delighted with the increase in efficiency and many of the Group's problems are fading away. Further information about attitude surveys can be obtained from the Institute's Secretary, 14 Welbeck-st., W1.

MAKE LIGHT WORK OF HEAVY FIXING

Every kind of bolt-fixing—in floors, walls, ceilings—completed in an hour or two and ready to take its full load! Even if there's no hurry, it's still sound business sense to get the job done efficiently and quickly with Rawlbolts. No virtue in work for work's sake!

RAWLBOLTS



PROVIDE ENORMOUS STRENGTH IN FRACTIONAL TIME

Rawlbolts are a *dry* fixing—they grip by expansion. No cold chiselling, no three-day wait for cement to harden! You *drill* the holes with one of the Rawlplug high-efficiency boring tools, hand or power. The machine is positioned, bolts tightened, and it's ready to go into operation *at once*—a rock-firm fixing that will never fail.

6 HEADS MEET EVERY NEED

For bolting to floors, use one of the 28 different sizes of LOOSE BOLT Rawlbolts (Fig. 1). These allow the machine to be slid into position without lifting. For wall fixings, use the Bolt projecting type (Fig. 2). These support the job while nuts are being tightened. For overhead and ceiling work, either type can be used. Other types are:—

Fig. 3. Pipehanger Rawlbolts (with adaptors for use with Pipehangers and other gas fittings).

Fig. 4. Rawlbolts fitted Pipeclips (7 sizes for ¾" up to 2½" O/D pipe diameter).

Figs. 5 & 6. Hook Rawlbolts and Eye Rawlbolts for providing anchorage for guy ropes and cables, supporting suspended ceilings etc. (5 bolt diameters, 3/16" up to ¾").

Write now for illustrated literature giving full details of Rawlbolts and the many high performance Rawlplug tools (hand, electric and pneumatic).

RAWLPLUGS

THE RAWLPLUG COMPANY LTD.

The world's largest manufacturers of fixing devices

CROMWELL ROAD, LONDON, S.W.7

Telephone: FREMANTLE 8111 (10 LINES)
Telegrams: RAWLPLUG SOUTHKENS LONDON

THESE BORING TOOLS SAVE TIME

RAWLDRILLS
for hand boring for Rawlbolt sizes A to G.

Rawlplug tools and drills are the toughest and most efficient in the world. There are sizes and types for every need—for drilling any hard material from concrete to glass, and for use by hand, electric and air power.

DURIUM DRILLS
—the world's fastest masonry drill. (Big range for hand and power also Long series drilling lengths 12" and 18".)

VIBROTO DRILLS
for vibration drilling in Vibroto machine

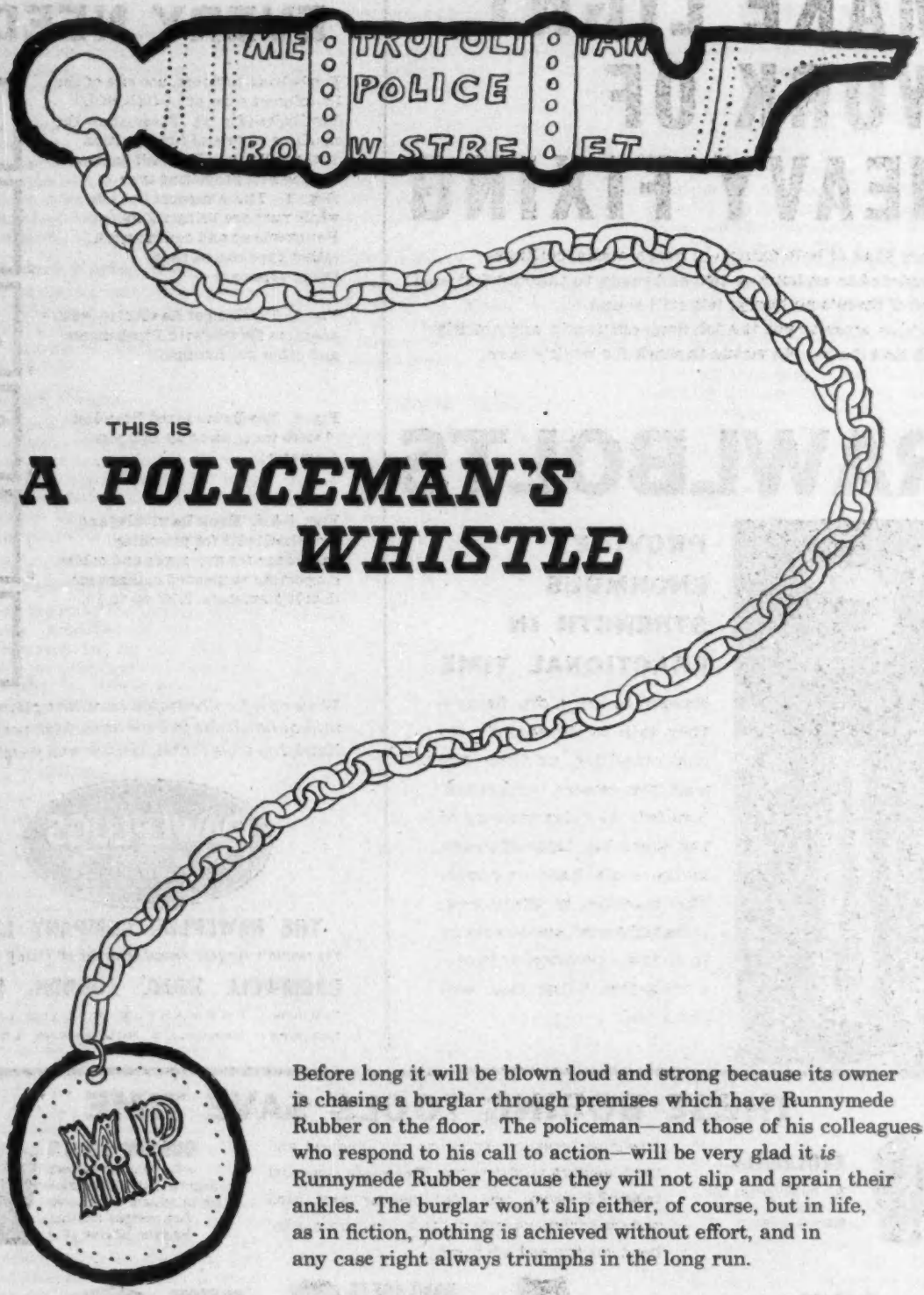
STARDRILLS
for hand boring all Rawlbolt sizes.

RAWLCRETE Tungsten Carbide Drills
for rotary drilling in concrete etc.

DURIUM HAMMER DRILLS

for use in electric hammers (for Rawlbolt sizes C to K).

8634



THIS IS

A POLICEMAN'S WHISTLE

Before long it will be blown loud and strong because its owner is chasing a burglar through premises which have Runnymede Rubber on the floor. The policeman—and those of his colleagues who respond to his call to action—will be very glad it *is* Runnymede Rubber because they will not slip and sprain their ankles. The burglar won't slip either, of course, but in life, as in fiction, nothing is achieved without effort, and in any case right always triumphs in the long run.

RUNNYMEDE RUBBER COMPANY LIMITED
6 Old Bailey, London, EC4. *Telephone: CITy 2471*

TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 35 of this issue. The form can be used for more than one inquiry.

ACOUSTICS

ACOUSTIC PYRAMIDS: Functional absorbers, formed from rigid PVC, perforated, filled with mineral wool. Each has a 22 in. square base, including a ½ in. flange; is 8½ in. deep. At a frequency of 1,000 cycles per second the absorption of the pyramids reaches 95 per cent. For all frequencies from 125 to 2,000 cycles per second, the absorption exceeds an average of 60 per cent. The pyramids are fixed easily and quickly on to any firm surface by a spiral spring fixed inside to the apex which is attached to a hook in the ceiling or wall.

Produced in a range of colours; give good light reflection; cleaned by dusting or damp-sponging; need no decoration, but can be painted if required. The PVC is resistant to ignition, and the absorptive filling is incombustible mineral wool. (Illustration.)
Marley Tile Co., Ltd.,
Sevenoaks, Kent.

CONCRETE

COLOURED CONCRETE GARAGES: Available in four permanent colours which extend right through the concrete—cream, blue, green and light red. The concrete wall panels are 6 ft. 6 in. high × 1 ft. 3 in. with smooth faces which are internally and externally tongued, so that the garage can be built to the eaves in one operation. Panels are alternately bolted together forming a portable but rigid construction. The 7ft. wide doors have glazed upper sections. The roof is constructed from 2 in. × 2 in. timber, covered with standard corrugated asbestos. A personal door can be supplied, built in, at a small extra cost. Sizes vary from 13 ft. 6 in. × 8 ft. 6 in. to 20 ft. 1 in. × 11 ft.
S. Wernick & Sons Ltd.,
Billericay, Essex.

DRAINAGE

PITCH FIBRE PIPE FITTINGS: Three new fitments designed for use with 4 in. pitch fibre pipes. Gulley traps are now made in pitch fibre, with a tapered mouth to take an 8 in. diameter metal grid. Access doors are available with the appropriate metal straps and bolts. Pitch fibre slipper bends for manholes are now produced in 50°, 70°, 90° and 115°. A double collar facilitates the jointing of pitch fibre pipes to stoneware spigot ends where an adaptor may not be permissible. Fit the untooled end of the pitch fibre and stoneware pipes into the socket of the double collar, caulk with yarn or similar material and fill with a 1:1 sand:cement mixture or bituminous compound.
UAM Group,
Tolpits, Watford, Herts.

FLOOR FINISHES

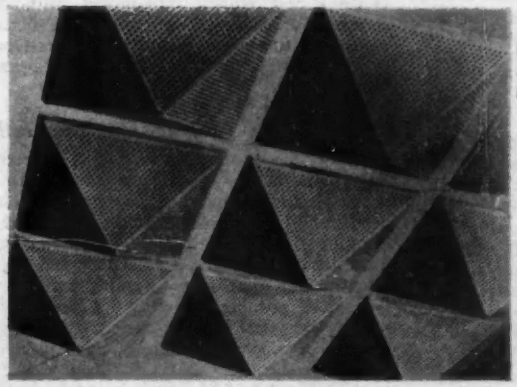
COLOURED 'RONSEAL': Red or green in colour, seals all cement type floors, unglazed earthenware and quarry tiles, stone and similar materials and inlaid linoleum. Imparts a good, solid, permanent red or green colour with a matt finish; prevents all dusting up of the floor material; provides complete protection against water, dirt and spillages; will not rub off. Quickly applied over large areas with a deck scrubber, self-levelling and shows no brush marks when dried. It can be applied to small areas with an ordinary paintbrush and is not in the least sticky. Approximate coverage, allowing for two coats, of 25 to 30 square yards per gallon.
Ronuk, Ltd.,
Portslade, Sussex.

HEATING

HEATING EXISTING FLOORS: Adaption of floor warming methods to existing buildings where the structure incorporates ordinary wooden floorboards can be carried out without major rebuilding operations. On top of ordinary floorboards a covering of aluminium foil is laid from wide reels. PVC covered heating cable of about ¼ in. diameter is then laid lengthwise on the floor, separated and retained in position by 2 in. wide strips of hardboard—chamfered to keep the wire in position. Carpet is then laid to complete the operation. This method is non-storage—but it is a low power consumption heating arrangement with emphasis on radiant heat. The foil underneath reflects the heat upwards and acts as a moisture vapour barrier. Some work is being done on weaving heating wire into underfelts which would give a similar effect. The prospect of lining the base with aluminium foil is being considered.
Star Aluminium Co., Ltd.,
97 Penn-road, Wolverhampton.

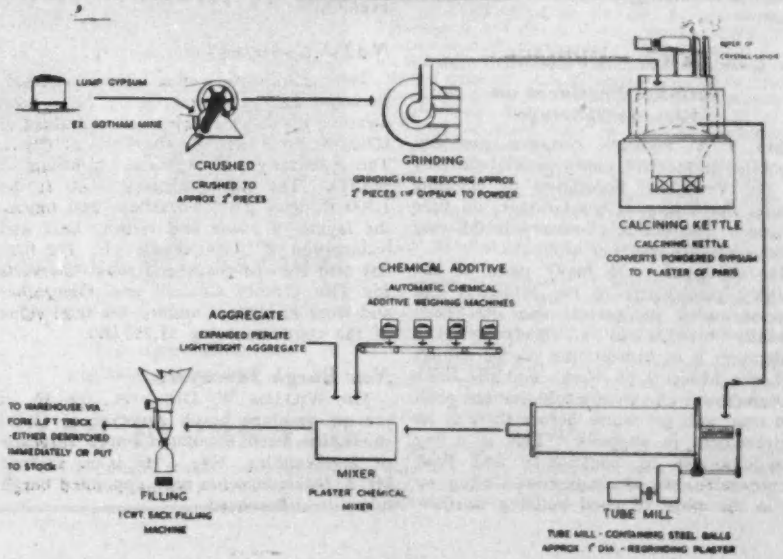
PLASTER

AUTOMATIC PLASTER PRODUCTION: Gypsum plaster without chemical additives would set hard in about 20 min., too quickly for most building operations. In the new mills at Gotham, the necessary retarders and other additions to the basic plaster are now weighed and added automatically. The particular formula wanted is preset on the machine and it then mixes each batch to exactly the same standard. Two main types of plaster are produced by this machine which has an output of 20 tons per hour. They are retarded hemi-hydrate or hardwall plasters under the name of 'Thistle' and pre-mixed lightweight aggregate retarded hemi-hydrate plasters—'Carlite.' For the latter the additional aggregate is added in a secondary mixing plant where the expanded perlite and/or vermiculite are added by volume control. (Illustration.)
The Gotham Co., Ltd., Gotham, Notts.



left: A section of the Marley 22 in. square base perforated pvc acoustic pyramids.

below: A diagram illustrating the flow process in the new plaster factory at Gotham. When the control panel has been set for the type of plaster required it automatically controls the entire production process.



OVERSEAS BUILDING

From Our Own Correspondents

MAURITIUS.—Alfred McAlpine and Son (Pty.), Ltd., have been awarded a contract for the construction of trunk sewers in the Plaines Wilhems District of Mauritius. The cost of the project is expected to be in the region of £1m.

PORTUGAL.—A contract has recently been signed in Lisbon by Metropolitan Vickers Electrical Export Co. Ltd., and Babcock and Wilcox, Ltd., to build a power station near the city at a cost of about £½m. The civil engineers engaged on this project are C. H. Allott and Son (Manchester) Ltd., and the building work will be carried out by Siderugia Nacional SARL of Lisbon.

SOUTH AFRICA.—Rush & Tompkins (S.A.) (Pty.) Ltd. have been awarded the contract for constructing 34 miles of trunk roads from Vryburg to Pudimoe, South Africa. The site is approximately 700 miles from Durban in the part of Bechuanaland handed over to South Africa. The contract value is considerably in excess of £400,000, and involves approximately 350,000 cubic yards of excavation and 400,000 square yards of bituminous surfacing.

SOUTH AFRICA.—The erection of a new building in Cape Town, consisting of 18 storeys and costing £1,250,000, was announced by Mr. John Schlesinger, the chairman of the African Life Assurance Society, recently. . . . A new 7-storey building, which the South African Railways will erect at a cost of £762,000, is to be built in Pretoria.

Barcelona Fair

The British Government pavilion at the Barcelona Fair has been awarded the prize given annually by the magazine *REVISTA* for the best stand. This is only the third time in the fair's history that an official pavilion from Britain has been exhibited. The pavilion, designed by a member of the exhibition department of the Central Office of Information, is of modern design and constructed in steel and glass. The exhibits illustrate the part played by Britain in the realm of technology and its current development.

BRICK SUPPLIES

National President on 'Serious Shortage'

MR. T. V. PROSSER, National president, speaking at the half-yearly general meeting of the Yorkshire Federation of Building Trades Employers, at Scarborough, on June 5, said: 'The building industry is suffering from a serious shortage of bricks.'

He continued: 'In many parts of the country, particularly in the Midlands and London, work on several sites has been virtually brought to a standstill. The Federation is in consultation on the subject with the Ministry of Works and the brick manufacturers and we are told that the position may well get worse before there is an improvement in supplies. This is a big disappointment to contractors and their operatives for the shortage comes when we are in the midst of good building weather.

The SCOTTISH BUILDER

Scotland's Housing, April

THE number of new houses completed in Scotland in April was 2,241. This was 699 fewer than in the same month last year. Completions this year now total 9,666 compared with 11,573 by April last year, according to the monthly return of the Department of Health for Scotland and the Ministry of Housing and Local Government published on May 29 by HMSO, price 3d.

Of the 363,416 houses built in Scotland since the war 332,539 were built by public authorities and 30,877 by private builders.

£20,000,000 Redevelopment Plan

GLASGOW PLANNING COMMITTEE approved, on June 2, plans for the redevelopment of Anderston at a cost of £20,000,000.

The area is centred on Anderston Cross and covers a total of 114 acres. This is the largest site so far proposed for redevelopment in Glasgow.

No Competitive Tendering

GLASGOW CORPORATION has ruled that 20 per cent of its work will go to its own Housing and Works Department without competitive tender. This ruling has been made despite opposition by the Progressives that all corporation work should be on open tender.

Multi-Storey Parking Reconsidered

GLASGOW CORPORATION is to reconsider its intentions on the subject of multi-storey parking and has indicated an area of 400 car capacity for development between North Portland-st., George-st. and Richmond-st. This will be offered to three firms previously interested in multi-storey parking for their views and possible proposals. Glasgow is moving here towards the basis of allowing outside development where previously the attitude was entirely in favour of municipal exploitation.

NATO Contract

THE GLASGOW FIRM OF CROWLEY, RUSSELL AND COMPANY LTD., have been awarded the NATO base contract valued at £800,000 for Fairlie on the Firth of Clyde. The Admiralty will supervise on behalf of NATO. The work involves a 40 ft. by 1,500 ft. long jetty, workshops and offices, the laying of roads and railway lines and reclamation of 50,000 square yds. The firm has also secured roads and sewer contracts for Fife County Council and Glenrothes and work in Hyde, Cheshire, the total value of the contracts being £1,250,000.

New Burgh Surveyors

MR. WILLIAM W. DUDGEON, age 30, at present assistant burgh surveyor at Galashiels, has been appointed burgh surveyor of Inverkeithing, Fife. He is to succeed Mr. J. Noble who has been appointed burgh surveyor to Barrhead.

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from February 2, 1959. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 9d.; Labourers, 4s. 2¼d.

For apprentices, the rates are:

Year	*Percentage of Craftsman's rate*	*For week of 44 hours* s.	d.
1st	25	52	3
2nd	33⅓	69	8
3rd	50	104	6
4th	66⅔	139	4
5th	75	156	9

For female labour, the rates are:

	s.	d.
Operatives on craft operations (at end of probationary period)	4	2½
Operatives on labouring operations (at end of probationary period)	3	8½

£700,000 School Programme

MORAY AND NAIRN County Council recently approved expenditure of £705,000 within the next six years on school projects. The chairman of the education committee, the Rev. Dr. Joseph Grant, Cromdale, said that if they did not encourage scientific, technical, and cultural studies they might be outthought by other nations.

SSHA Houses

THE SCOTTISH SPECIAL HOUSING ASSOCIATION will start work at Johnston shortly on a Glasgow overspill scheme of 518 houses; of these 240 will be in 12-storey blocks.

Preservation of Historic Houses

THE HISTORIC BUILDINGS COUNCIL FOR SCOTLAND, whose annual report was published recently (9d.: Stationery Office), commend the efforts of local authorities, especially those with limited means, to preserve small houses of architectural merit.

Part of the £303,000 which the Ministry of Works have offered in grants since 1953 on the council's recommendation has gone towards the cost of municipal schemes in such towns as Inveraray and Dunblane. The report, signed by the chairman, Earl Cawdor, suggests, however, that in the main the preservation of the finest examples of local architecture should be the responsibility of the ratepayer. Small grants as tokens of the approval of the council are all that is justified, except where the burden is clearly very great.

NEW BUILDING

Ayr.—SSHA have received warrant from Dean of Guild Court to build 144 houses at Belmont South. Est. cost £191,000.

Dunbarton CC.—Reconstruction of road depot at Hardgate, Duntocher. Applications to County S. by June 12.

Dumfries.—Messrs. John Twiname, Ltd., have acquired land at Dumfries for 300 houses. Planning permission has been granted.

Dundee.—TP Comm have approved plans for 56 lock-ups at Fairmuir-st., Fairfield-rd.

Falkirk.—New prim. sch. to be built at Carmuirs Drive. Est. cost £64,000.

Kirkcaldy Corpn.—Surface dressing of 46,564 sq. yds. of roadway. Burgh E., Town-hse., Kirkcaldy, by June 15.

North of Scotland Hydro Electricity Bd.—Breadalbane Project; civil engineering work on gravity dam of 800 ft. length and 50 ft. height and 3½ mile small section tunnel power station, concrete pine aqueducts, intakes and ancillary works. Blyth and Blyth, 135 George-st., Edinburgh. Dep. £10.

Stirling.—Tenders invited for 38 houses at Weaver Row development. Applications to Burgh A. and Planning Officer by June 12.

The Builder

FUTURE CONSTRUCTION

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those with an asterisk are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. A dagger (†) against the entry indicates that applications must be received by this date.

BUILDING

JUNE 10

***†Birmingham City C.**—Firm price tenders for aged persons' home at Park Hill, Handsworth. TC.

JUNE 16

***†Birmingham City C.**—Firm price tenders for extensions and improvements to cottages at Shenley Fields Cottage Homes, Northfield. City A. Dep. £2 2s. Tenders by July 8.

***†West Riding of Yorkshire CC.**—Reorganisation of main kitchen at Northgate Lodge, Pontefract. County A. Tenders by June 30.

JUNE 18

***†Newcastle Regional Hospital Bd.**—New casualty department and operating suite at Stockton and Thornaby hospital, Stockton-on-Tees. Secretary to Bd.

JUNE 19

***Rotherham CBC.**—Block of shops and offices at Corporation-st. Boro' E.

JUNE 20

†Salop CC.—Inclusion in approved list of building contractors. County A.

†Upton-upon-Severn RDC.—Fixed price tenders for 32 dwellings at Bannut Hill, Kempsey. H. W. King, 29 High-st., Evesham. Dep. £5 5s. Tenders by July 7.

***Wirksworth UDC.**—Fixed price tenders for four houses, two bungalows, with site and road works, and four garages. Council's A. Dep. £2 2s.

JUNE 22

Bangor City C.—Alterations and repairs to Town Hall. City S. Dep. £3 3s.

Castleisland, Co. Kerry, RI.—New mart buildings and other works for Castleisland Co-Op. Live Stock Mart Ltd. Michael Herlihy, Secretary, Castleisland Co.-Op. Livestock Mart Ltd., Main-st., Castleisland, Co. Kerry, RI. Dep. £50.

***Tottenham BC.**—44 dwellings and doctor's accommodation at 626/32 High-rd. Boro' E. Dep. £2 2s.

JUNE 23

Colne Valley UDC.—Extensions to Municipal Offices, Carr-la., Slaithwaite, including new Council Chamber. E&S. Dep. £5 5s.

Dublin, RI.—New offices at 33-34, Dame-st., Dublin, for Insurance Corporation of Ireland Ltd. QS: John O'Brien, CQS, 8, Leinster-st., Dublin. Dep. £50.

JUNE 25

Down NI, CEC.—New prim, sch, at Ballystockart Comber. W. H. Stephens & Sons, 13 Donegall-sq. North, Belfast. Dep. £3 3s.

†Wembley BC.—Inclusion in lists of contractors for (1) building and (2) civil engineering works. Boro' E&S.

JUNE 26

***†Huntingdonshire EC.**—Fixed price tenders for proposed new sec. mod. sch. at Orton Longueville. County A.

***†Scunthorpe BC.**—60 flats and nine garages at Ashby-rd. Boro' S. Dep. £2 2s.

JUNE 27

***†Winchester.**—New parish church of St. Luke at Stanmore. A: C. W. T. Evans (A), Wolvesey-pl., College-st., Winchester.

JUNE 29

Ellesmere Port BC.—Fixed price tenders for:—(a) nine shops, 14 dwelling units, and 10 garages, at North Whitley estate, and (b) 40 houses, eight flats, and 27 garages, etc., at Orchard Farm Estate. Boro' E&S. Dep. £3 3s. each contract.

JUNE 30

***Exmouth UDC.**—Fixed price tenders for extensions and alterations to Council offices at St. Andrew's-rd. E&S. Dep. £3 3s.

JULY 1

***Salford City C.**—Firm price tenders for alterations to Frederick-rd. bus depot, Salford, 6. City E&S. Dep. £3 3s.

***Salford City C.**—Firm price tenders for:—(a) public conveniences at David Lewis recreation ground, Frederick-rd., Salford, 6, and (b) bowls pavilion at Ordsall Park, Trafford-rd., Salford, 5. City E&S. Dep. £2 2s. each contract.

JULY 3

***Chesterfield RDC.**—18 dwellings at North Side, Tupton. E&S. Dep. £2 2s.

JULY 6

***Hambledon RDC.**—(a) Six bungalows at Hazelwood, Elstead; (b) two bungalows at Turners Mead, Chiddingfold; (c) one bungalow at Glebe-rd., Cranleigh, and (d) one bungalow at Wyphurst-rd., Cranleigh. E&S. Dep £2 2s.

***St. Helens CBC.**—Six police flats on Forest-rd./Feeney-st. site, Sutton Manor. Boro' & Water E. Dep. £2 2s.

JULY 7

***Berkshire CC.**—New ambulance station and two firemen's houses at Shaw estate, Newbury. County A. Dep. £2 2s.

***Great Yarmouth CBC.**—Fixed price tenders for eight aged persons' bungalows, warden's flat and communal unit at Addison-rd., Gorleston. Boro' E. Dep. £2 2s.

JULY 9

Newcastle upon Tyne City C.—27 flats at Scotswood-rd. (Noble-st.) redevelopment. City A.

JULY 15

***Bournemouth CBC.**—Fixed price tenders for extensions to North Cemetery crematorium. Boro' A. Dep. £2 2s.

***Croydon CBC.**—New hostel for 80 old people at Queens-rd hospital. Boro' E.

JULY 17

***Shrewsbury BC.**—Fixed price tenders for demolition of 117 to 123a Frankwell and erection on r.c. pier and beam foundation of four flats and four maisonettes. Boro' S. Dep. £2 2s.

JULY 21

***Heston and Isleworth BC.**—New works depot with offices and flats over, and works buildings. Boro' S. Dep. £2 2s.

GALT-GLASS
ROOF LIGHTS
DOME LIGHTS
eliminate
GLARE
and
SHADOW
transmit 90% daylight
No specialist labour required
DETAILS FROM:
ALLAN BLUNN LTD
29 CRAVEN STREET, LONDON W.C.2
Telephone: WHitehall 8801-2-3

SERVICES, PAINTING, MATERIALS, ETC.

JUNE 22

***†West Riding of Yorkshire CC.**—Internal painting at County Welfare Establishment, Northgate Lodge, Pontefract. Divisional A. Tenders by July 6.

JUNE 26

***†Ipswich CBC.**—(1) Heavy engineering and building laboratory benching; (2) tables and cupboards, and (3) miscellaneous fittings for new Civic College. A: Johns, Slater & Haward (F/A), 32 Foundation-st., Ipswich.

JULY 1

***Southend-on-Sea CBC.**—Resurfacing of playground and new paved areas. Boro' A.

JULY 7

***Islington BC.**—Cleaning of stonework at West branch library, N1. Boro' E&S.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

JUNE 15

†Chislehurst and Sidcup UDC.—Widening and reconstruction of ½ mile of Perry-st., Chislehurst, A.222. E&S. Dep. £5 5s.

†Kent River Bd.—Seaward extension of Littlestone sea wall, 825ft. long, 40ft. wide. E to Bd., 78 College-rd., Maidstone.

JUNE 22

Ellesmere Port BC.—4,250 sq. yds. of roadways. 1,800 lin. yd. of 6in. to 39in. dia. foul and SW sewers, etc. Boro' E&S. Dep. £3 3s.

Port Talbot BC.—1,450yd. of 9in. and 12in. dia. concrete pipe and 800yd. of 6in. pitch fibre pipe sewers, with manholes, etc., at George site. Sandfield neighbourhood unit. Boro' E. Dep. £2 2s.

JUNE 25

Manchester Corpn.—8¼ miles of asbestos-cement and CI pipes, mainly 9in. and 12 in. to 21in. dia., with fittings, etc., to form gravity and rising mains in Werneth area. Ward, Ashcroft & Parkman, consultants, 38 The Temple, Dale-st., Liverpool. Dep. £5 5s.

JUNE 26

Pickering RDC.—1,650 lin. yd. of 4in. dia. water main from Headlands-la. to Newton-upon-Rawcliffe, D. H. Moore. MInstCE, constg. engr., 12 Valley Bridge-parade, Scarborough. Dep. £1 1s.

Ryedale Joint Water Bd.—3,700 lin. yd. of 6in. dia. water main, etc., from Swainson-la. reservoir, Pickering to Newton/Rawcliffe system of Pickering RDC. D. H. Moore, MInstCE, constg. engr., 12 Valley Bridge-parade, Scarborough. Dep. £2 2s.

JUNE 29

Bucks CC.—1,070yd. of roadworks from Slough Borough boundary to Colne Bridge on Colnbrook by-pass, London-Bristol trunk road, A.4. County S. Dep. £2.

London CC.—Reconstruction and widening of Theobalds-rd. between Boswell-st. and Emerald-st. Chief E. Dep. £3.

JUNE 30

Magor and St. Mellons RDC.—Castleton.—Marshfield water scheme.—2,450yd. of 6in. dia. c.i. pipe and 900yd. of 4in. dia. asbestos pipe. Thomas & Morgan & Ptnrs., constg. engrs., 23 Gelliwastad-rd., Pontypridd, Glam. Dep. £3 3s.

Wiltshire CC.—New roundabout on London-Bristol trunk-rd., A.4, at junction with Devizes-Swindon-rd., A.361, together with approach roads, and widening and realignment of 1,500yd. of trunk road to west of junction. County S. Dep. £2.

Wincanton RDC.—Fixed price tenders for 2,200yd. of 9in., 7,150yd. of 6in. and 1,120yd. of 4in. asbestos-cement water mains, 40,000-gall. capacity reservoir and booster pumping station. Allen & Webber, Cel's. constg. engrs., Half Moon-st., Sherborne, Dorset. Dep. £3 3s.

JULY 1

Ealing BC.—Laying of approx. 950 lin. yd. of 18in. to 30in. dia. sewer in trench, 250 lin. yd. 21 in. dia. sewer in heading, 18 manholes and overflow chamber at Ealing-rd., Northolt. Boro' E. Dep. £5.

***Manchester City C.**—(a) Structural steelwork and (b) patent steel deck roofing for secondary sludge pumping stations at Davyhulme sewage works extensions. City S.

JULY 2

Rugby BC.—2,400 lin. yd. of 24ft. dual carriageway, three short-span bridges, SW drainage, etc., on Leicester-rd., Brownsover diversion. Boro' S. Dep. £5 5s.

JULY 3

Atcham RDC.—7,880yd. of 6in. to 18in. glazed stoneware and concrete pipe sewer, with manholes and house connections at Bayston Hill. E&S. Dep. £2 2s.

***Flint BC.**—Fixed price tenders for ejector station, pumping station, 650yds. of 4in. rising main and 2,700yds. of 6in. dia. sewers, etc., at Manor estate and The Wern, Bagillt. Williams & Clarke, chartered civil engineers, 6 Godstall-chbrs., Chester. Dep. £2 2s.

JULY 4

Bakewell RDC.—3,800yd. of 6in., 4in. and 3in. water mains, pumping station and roofing of existing reservoir, etc., in Hathersage and Outseats parishes. Brady & Partington, Ccl's. constg. engrs., Market-st., Chapel-en-le-Firth. Dep. £5.

Lydney RDC.—High Woolaston water supply.—Fixed price tenders for 642yd. of 6in. and 5,120yd. of 4in. spun-iron water main, with valves and fittings, etc. E&S. Dep. £3 3s.

JULY 6

Barrow-upon-Soar RDC.—Three miles of 9in. and 6in. dia. glazed stoneware, concrete and CI sewers, manholes and house connections, two miles of 4in. and 6in. CI rising main, three sewage pumping stations, etc., in parishes of Ratcliffe-on-the-Wreake, Rearsby and Thrussington. A. P. I. Cottrell & Sons, engrs., 54 Victoria st., S.W.1. Dep. £5 5s.

Haverfordwest RDC.—(a) 1,491yds. of 6in. sewer at Letterston East, (b) 1,645yds. of 6in. sewer at Clarbeston-rd (with manholes and sewage treatment works for each scheme) and (c) 1,110yds. of 1½in. asbestos water mains between Carmina and Sunnyside. Fixed price tenders for any or all. E&S.

Leeds City C.—Sewering and kerbing for three-year period. City E. Dep. £5 5s.

JULY 7

Sidmouth UDC.—Fixed price tenders for 6,400 lin. yds. of 9in., 4in. and 6in. spun-iron mains, 500,000-gal. capacity mass concrete reservoir, pumping station, chlorination houses, etc. Harvey, McGill & Hayes, Ccl's. constg. engrs., 8 Richmond-rd., Exeter. Dep. £5 5s.

JULY 8

Hertfordshire CC.—Fixed price tenders for reconstruction and widening of Hunters Bridge, Welwyn Garden City, with 500yd. of approach roads and embankments. R. Travers Morgan & Ptnrs., constg. engrs., 63 Aldermanbury, EC2. Dep. £25.

†Wimborne and Cranborne RDC.—Six miles of 6 in. and 9in. concrete sewers with flexible joints, manholes and house connections, 1,300yd. of 7in. asbestos-cement pumping main and pumping station.—West Parley sewerage scheme. S. Dep. £5.

JULY 17

Watford RDC.—3,910 lin. yd. of 6in. and 9in. SGW sewer in Toms-la. and part of village of Bedmond, Abbots Langley, and 420 lin. yd. of 15in. dia. concrete sewer in Station-rd., with 55 brick manholes. J. D. & D. M. Watson, M/MICE, Ccl's. constg. engrs., 67 Tufton-st., Westminster, SW1. Dep. £5 5s.

JULY 20

Samford RDC.—2¼ miles of 7in. and 12in. dia. stoneware and concrete sewers and 4in. and 5in. dia. spun-iron pumping mains and two pumping stations. Binnie, Deacon & Gourley, engrs., Artillery-hse., Artillery-row, Westminster, SW1. Dep. £10.

GENERAL BUILDING WORK

(LONDON)

St. Marylebone.—SHOPS AND OFFICES.—Ronald Ward & Ptnrs. (F/A), 29 Chesham-pl., Belgrave-sq., SW1, are the architects for the redevelopment of the L-shaped site between 66 Baker-st., Dorset-st. and Broadstone-pl., W1, by a four-storey block of shops and offices for the Kennedy Leigh Development Co., Ltd.

Westminster.—APPOINTMENT.—Lewis Solomon, Kaye & Ptnrs. (F/A), Thavies Inn-hse., 5 Holborn-circus, EC1, are the architects for the redevelopment of the site of 10, 11, 12 and 13 Grosvenor-sq., W1, for a London property company. It is not yet known what form the development will take.

(PROVINCIAL)

Ashton-under-Lyne.—TC approved plans for new office block on site bounded by Glebe-st., Cross-st. and Chapel-st. for Teneriffe Estates Ltd., 1 Teneriffe-st., Manchester, 1.

Birkenhead.—BC proposes following in 1960 programme:—40 dwellings at Prenton Dell, 45 at Sidney-rd., 70 at Queensbury-st., 60 at Wood-st., 60 at Payson-st., and 100 at Albert-pl.—To prepare revised scheme for new fire station and ambulance station at Woodchurch.

Birmingham.—Planning permission sought by Raventop Developments, Ltd., for development of four acres bounded by New-st., Corporation-st., Cherry-st., Temple-row and Needless-alley, involving replacement of Cannon-st. and Forest. by arcades and including 8-storey office block, block of shops and showrooms and roof parking space. A: Cotton, Ballard & Blow (A), Cavendish-hse., Waterloo-st., Birmingham, 2.

Bolton.—Guide Dogs for the Blind Assn., 81 Piccadilly, W1, proposes new training centre for guide dogs, £100,000 est. A: Hatchard-Smith & Bertram (F/A), 213 Grand-bldgs., Trafalgar-sq., WC2. QS: Gleeds, Regent-st.

Bootle.—TC approved plans for new church for PC Council of St. Peter.—Approved erection of 50 maisonettes, 44 flats and 8 garages at Strand-rd./Boston-st. site.

Bournemouth.—Sketch plans being prepared in consultation with airline operators for a permanent terminal building to replace existing temporary structures at Bournemouth (Hurn) Airport.

'THE BUILDER' PRICES

Owing to current restrictions on space, until further notice 'The Builder' 'Measured Prices for Building Work in London,' 'Current Prices of Materials' and 'Rates of Wages' will not be printed. Principal changes will, however, be noted weekly in this column. All these three copyright features were given in full in our issue of June 5. They will be resumed as soon as circumstances permit.

GF step irons

GF Malleable Iron is strong and reliable. Specify GF Step Irons for your next job.

Standard types are:

3½ lb. with 4⅛" tail for 4½" brickwork
4¾ lb. with 9⅛" tail for 9" brickwork

For precast concrete manholes:

2 lb. with 1⅞" tail · 2½ lb. with 2" tail
2⅝ lb. with 3¼" tail

GF Step Irons conform to BS 1247/1955

Ask your usual supplier, or write to

BRITANNIA IRON & STEEL WORKS LIMITED

A member of the George Fischer Group (Switzerland)

BEDFORD Telephone: Bedford 67261

Bury.—PCC of St. John's proposes erection of new church premises, £40,000 est.

Caernarvonshire.—EC proposes new prim. sch. at Bodnant-rd., Llandudno.

Carlisle.—Public house proposed at Langrigg-rd. for Carlisle and District State Management Scheme.

Cheadle and Gatley.—UDC proposes public hall, library and clinic at Heald Green. A: A. R. Walsingham, 1/3 Ashfield-rd., Cheadle.—Approved plans for church, church hall and parsonage at extension of Southdown-cres., Cheadle Hulme, for Rev. J. K. Byrom, All Saints, Cheadle Hulme.

Chester-le-Street.—Layout plans approved for 24 old people's bungalows at Kibblesworth for RDC. Ccl's. Housing A: F. Bowman (A).—Cussins Ltd., contractors, The Drive, Gosforth, seek permission for housing developments at Lamesley.—J. Welsh & Co., builders, Back Stephendale-terr., Newcastle-on-Tyne, propose houses at High Rickleton estate.

Crompton.—UDC proposes new light industrial site off Linney-la.

Darlington.—Department of Pathology to be built at Darlington Memorial Hospital by Newcastle-on-Tyne Regional Hospital Bd., Benfield-rd., Newcastle-on-Tyne. Bd.'s Ch. A: P. H. Knighton, MBE, (A).

Fareham, Hants.—MH&LG authorised UDC to erect further 37 houses, providing tenders are received this year.

Leeds.—Regional Hospital Bd. appointed Yorke, Rosenberg & Mardall (F), 2 Hyde Park-pl., W2, as A for extensions to Western General Hospital, Hull.

Leeds.—British Transport Commission approved proposal of British Railways (North Eastern Region) to combine Leeds City and Leeds Central stations on site of City station. Works will include overhead car park and entire reconstruction of City Station South.

Leeds.—HC approved final plans for proposed civic centre at Seacroft, £956,000 est., including 80 shops with maisonettes above, two multiple shops, bank premises, offices and market hall. City A: R. A. H. Livett, OBE, (A).

Leeds.—Leonard H. Clarke, MBE, (A), MTPI, 91 Otley-rd., Harrogate, is A for proposed church at Green-la., Cookridge, £24,000 est.

Manchester.—TC approved erection of 36 maisonettes at Rochdale-rd. and Churnet-st., Collyhurst and 80 maisonettes at City-rd and Linby-st., Hulme.—D. C. Hamilton Ltd., propose single-storey warehouse, factory and offices at Broughton-st., Cheetham. A: Howard & Seddon (F/A), 88 Mosley-st., Manchester.

Mansfield.—BC approved layout for 17 houses and 12 flats at junction of Kirkland-ave. and Garnon-st.—To prepare revised scheme for attested dairy accommodation at Market. Plans submitted: 9 bungalows and 9 houses at Newport-st. for W. Scott (Nottingham) Estate Co. Ltd.

Middlesbrough.—T. A. Crawford (L), 80 Borough-rd., Middlesbrough, prepared plans for 16 houses at Wheatley-close for L. Conolly, York-rd., Middlesbrough, and nine bungalows at Cambridge-rd. for Waddington and Hannan, builders, Daleston-ave., Linthorpe, Middlesbrough. Boro' E (J. A. Kenyon) has prepared plans for 73 houses at Saltersgill estate.—Plans approved for 28 shops with flats and maisonettes above at Ormesby-rd. for Norwich Union Insurance Societies. A: Evans, Cartwright & Woollatt (F), 4 Clarendon-st., Nottingham.

Newcastle-under-Lyme.—TC approved in principle new civic centre at Merrial-st., £456,000 est.

Newcastle-on-Tyne.—City Trade and Commerce Com. seeks permission to proceed with £485,000 scheme for extending Newcastle Quay. Later it is proposed to spend another £250,000 on construction of roads, railway sidings, sewers, sheds and cranes in connection with extensions. Constg. engrs.: L. G. Mouchel & Ptnrs., 24 Claremont-rd., Newcastle-on-Tyne.

Newcastle-on-Tyne.—W. B. Edwards & Ptnrs. (F/A), 5 Claremont-bldgs., Newcastle-on-Tyne, appointed A by EC for proposed alterations and additions to College of Further Education, Bath-la., Newcastle.

Newcastle-on-Tyne.—Alterations proposed to King's College naval architectural dept. to plans by H. Wood (A), AMTPI, 2a Ridley-pl., Newcastle.—M. J. Liddell & Son, builders, to erect office block at rear of their premises at 36 Great North-rd. A: Ryder & Yates (A), 36 Great North-rd.—Revised plans prepared for brew-

100,000 sq. ft. factory built in record time from handing over site to completion in 12 weeks *

The Sherbourne system of pre-engineered construction brings you all the advantages of low-cost unit building without any of its drawbacks. Sufficient stocks of components are held to permit the immediate erection of buildings to cover up to 200,000 ft. super. Standard, obstruction-free spans range from 105 ft. to 15 ft. and any length is possible.
Over 600 Sherbourne buildings for use as factories, offices, showrooms, canteens and service stations have been erected to date, in most cases by leading architects, contractors, and consulting engineers.
Your enquiries will receive our immediate attention.

When Speed is the need specify

SHERBOURNE

STANDARD PRE-ENGINEERED **BUILDINGS**

SHERBOURNE ENGINEERING LTD.,
Sherbourne Road, Acocks Green, Birmingham 27 Tel.: Acocks Green 0633 (12 Lines)
LONDON OFFICE:
33 Manor Farm Road, Alperton, Wembley, Middlesex. Tel.: Wembley 8671 (5 lines).

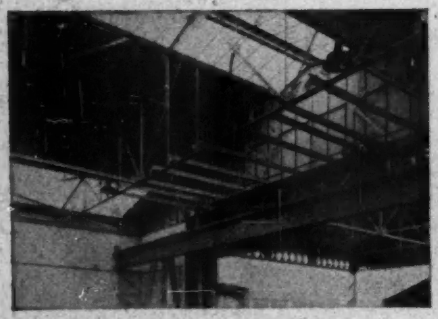
** Erected for Morris Motors Ltd., Cowley*

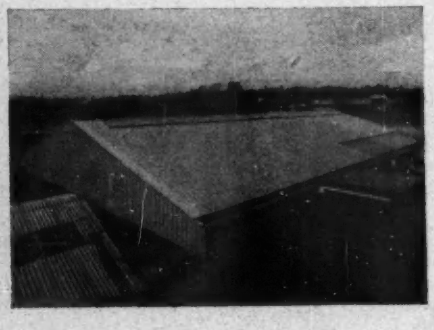
SNAPDEK

—a lightweight roof-decking **with heavy-duty properties!**

SNAPDEK is one of the lightest forms of roof-decking. Even including all fixings, its total weight does not exceed 14½ lbs. per square yard. Despite this, the strength and safety of SNAPDEK is well within the loading figures laid down in B.S. C.P. 3, Chapter V, paragraph 6 (a) (1952) when used at the maximum purlin spacing of 8 feet. And here are a few more reasons why SNAPDEK is today's top roof-decking:—

thorough insulation
completely incombustible
ease and speed of erection
functional good looks
durability
adaptability
freedom from leaks
LOW INITIAL COST AND
NO MAINTENANCE COST





Contract: Burman & Sons, King's Norton, Birmingham
Architects: Messrs. Harry Bloomer & Son, Birmingham
Main Contractors: Messrs. T. Elvins & Sons Ltd., Birmingham
Roofing Contractors: Messrs. Rudders & Paynes Ltd., Birmingham

SPECIFY

SNAPDEK

Regd. Trade Mark

Prov. Patents Nos. 32555, 36279

THE MODERN INSULATED ALUMINIUM ROOF DECKING

Further technical information may be obtained from:—

SNAPDEK LIMITED, CHESTER STREET, ASTON, BIRMINGHAM 6. Telephone: ASTON CROSS 4804 and 4805

"SNAPDEK IS AN ADAPTATION OF "SNAPREE"

Government Conversion Scheme

There's no bath like the

ALLIED
Vogue

Better baths - bigger business!

Baths for all – that's what the Government grant means. And your customers can have an ALLIED Vogue, on terms that include bath, installation costs and accessories, *with up to 5 years to pay*. Wonderful terms for a wonderful bath! And what wonderful bath selling this means for you! Make sure you know all about ALLIED's plan to help you sell the Vogue – ask ALLIED for full details.

ALLIED'S "5-years-to-pay plan" helps you sell it!

Made by ALLIED, the largest bath manufacturers in Europe, the Vogue is the best value-for-money bath today, because . . .

- *Vogue's flat-bottom (pioneered by ALLIED) and low "set" add to its looks, comfort and safety in use.*
- *Vogue's cast-iron construction ensures greater strength, permanence and durability.*
- *Vogue, superb in sparkling white, is also obtainable in gay pastel shades of cream, green and blue.*
- *Vogue – at £20 – is the finest bath buy of all.*

Vogue is such an outstanding bath that it has had many imitators. But though you can copy design, you can't copy quality. And Vogue remains supreme in its class.
Vogue is the bath that fits into all types of homes; that will (on account of its very reasonable price) be in even greater demand when the Government Conversion scheme comes into being. Vogue is a ready-seller now. Soon everyone will want a Vogue!

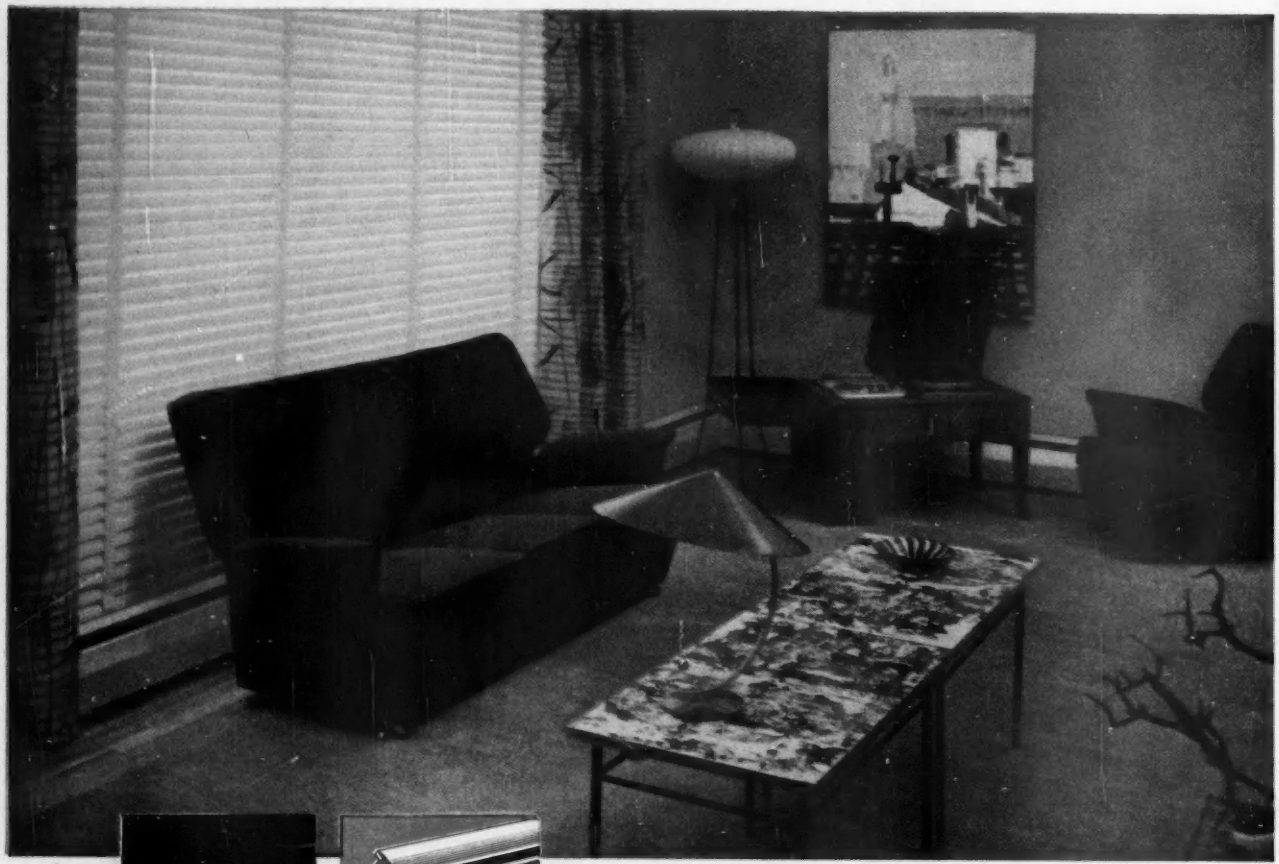
Stock ALLIED Vogue the bath that sells on sight!

Allied Ironfounders Limited, Baths Division, Greenford, Middlesex.

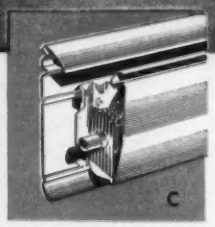
REGD. TRADE MARK

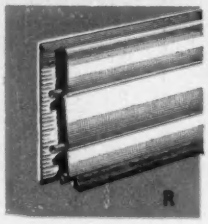
F•

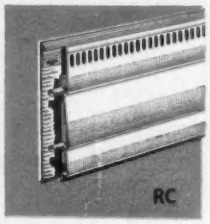
Born Yesterday...already the talk of the town



THERE ARE THREE TYPES OF WALLSTRIP







Type C—Recommended for most domestic applications, providing mainly convected heat.

Type R—Institutional model of heavy construction, but shallower from wall to front than Type C, providing mainly radiant heat. Smooth surfaces, free of dust/traps, especially suitable for hospitals and other places where hygiene and cleanliness are vital.

Type RC—Again, an institutional model of heavy construction, similar to Type R but providing a combination of radiant and convected heat.

Copperad WALLSTRIP is a skirting-board that heats. It places the heat where it is most needed—along the outside walls at the normal source of loss.

For a new building—home, office, school, hall, hospital or institution—WALLSTRIP allows you the maximum freedom in aesthetic design. Windows can reach to within 12″ of the floorline; no ungainly, heavy equipment is involved; there is nothing to detract from its flowing lines.

UP TO 15% SAVING IN FUEL AND CAPITAL EQUIPMENT COSTS

Rigorous tests have revealed Copperad WALLSTRIP reduces the heat input required—cuts fuel costs by up to 15%. When WALLSTRIP is installed, up to 15% less heating equipment is required, with consequent savings in the size of the boiler and ancillary equipment. The cost of skirting-board is, of course, eliminated. Moreover, no special equipment is required; it can be installed with the ordinary tools of a heating engineer.

"It is no more expensive than ordinary heating equipment and so much more effective."

Copperad *Wallstrip*

Warmth from nowhere — EVERYWHERE!

Copperad Ltd. Head Office & Works: COLNBROOK, BUCKS. Telephone: Colnbrook 2521 (8 lines) Telegrams: Copperad, Colnbrook

Scottish Office: 53 George Street, Edinburgh, 2 Telephone: CALedonian 1562

London Office: 1 York Street, Baker Street, London, W.1 Telephone: WELbeck 1226/7

Birmingham Office: Wolverley House, 18 Digbeth, Birmingham 5 Telephone: MIDland 1553

Representatives at: Belfast, Bristol, Cardiff, Glasgow, Leeds, Manchester, Newcastle-on-Tyne, Nottingham

Also at: Amsterdam, Auckland (N.Z.), Johannesburg, Lisbon Brussels, Melbourne

Canada, Associated Companies, Manufacture—National Heating Products Ltd., Montreal. Distribution—The Douglas Engineering Co. Ltd., Toronto.

house yeast room and lavatory block at Corporation-st. for Newcastle Breweries Ltd., Haymarket, Newcastle.—City C received sanction to borrow £206,887 towards first stage of new Town Hall planned at Barras Bridge.

Northampton.—Norwich Union Insurance Societies propose new industrial premises at Dallington Fields estate for occupation by H. J. Heinz & Son Ltd. A: Grenfell Baines & Hargreaves (F/A), 12 Guildhall-st., Preston.

Nottingham.—TC approved erection of 183 garages at Clifton and Glapton estates, £37,953 est.—Approved scheme for 18 maisonettes and 2 flats at Walker-st., £47,921 est

Notts.—CC approved scheme for branch library and clinic at Carlton-in-Lindrick.

Ormskirk.—Smithfield Homes Ltd. propose development of former Admiralty No. 2 Camp at corner of Abbey-la. and High-la., Burscough, for housing purposes. Inquiry held.

Radcliffe.—Strebor Diecasting Co. Ltd. propose new factory at Allens Green. A: Young & Purves (F), 32 The Crescent, Salford.

Rochdale.—TC approved amended layout for 21 bungalows at Spencer-la. for Barnett Building Co. Ltd., 64a Rowland-st., Manchester.

Settle.—RDC proposes 22 houses at Settle, 8 at Bentham, 4 bungalows at Ingleton, 4 at Hellifield and 4 at Horton-in-Ribblesdale.

South Shields.—J. Smeds (A), Camden-st., North Shields, appointed A, J. S. Glover, 13 Winchester-st., South Shields, QS. and F. M. Owsnett, Lloyds Bank-chbrs., Sunderland, consulting engineer, for proposed Whiteleas infants' sch. (No. 2), for EC.—William Leech Ltd., builders, St. James-st., Newcastle-on-Tyne, to erect 10 houses at High Meadow.—Plans prepared by Snow & Pinrs., consig. engrs. Monro-bldgs., Wellington-st., WC2, for extensions to cold storage and office block at Newcastle-rd. for S.P.D. Ltd.—Newcastle Breweries Ltd., Haymarket, Newcastle-on-Tyne, are to build licensed premises at corner of Henderson-rd. and Bainbridge-ave., and have prepared their own plans.

Stockton-on-Tees.—Planning approval given for office block at Church-rd. for J. W. Henderson & Co. Ltd., builders, Church-rd.

Stretford.—Plans submitted to BC:—24 flats at Edge-la., Norwood-rd. and Hillingdon-rd. for R. R. & J. Willan, Ltd., Sale; office block, maintenance garage and workshops at Trafford Park-rd. for Springfield Warehousing and Wharfage Co., Ltd.

Sunderland.—EC received MofE sanction to extend Sunderland Teachers' Training College to increase accommodation from 100 to 300. Work not expected to start for year or two. Boro' A: H. C. Bishop (A), AMTPI, Grange-hse., Stockton-rd., Sunderland.

Sunderland.—Sir James Laing & Sons, shipbuilders, to construct new quay 450 ft. long at their Deptford yard.

Sunderland.—CWS, Ltd., to build distribution depot on site of over 8,000 sq. ft. in East Cross-st. redevelopment area. Society's A Dept., 90 Westmorland-rd., Newcastle-on-Tyne.—Proposals approved for erection of houses nr. Tunstall-rd. for Major Gregson. A: G. T. Brown & Son (F/A), 53 Fawcett-st., Sunderland.—Matthew Nunn, builder, 40 Nile-st., Sunderland, to build 19 houses at Seaforth-rd., Sunderland.—I. Smith, builder, 2 Canberra-rd., Sunderland, proposes 46 houses at High Barnes estate to plans by Wm. & T. R. Milburn (A), 18 Fawcett-st., Sunderland.—Tarren & Caller (A), 16 Great North-rd., Newcastle-on-Tyne, are A for self-service retail shop at Melbourne-pl., High Barnes estate, for Thompson Red Stamp Stores Ltd.—Boro' A, H. C. Bishop (A), Grange-hse., Stockton-rd., Sunderland, prepared plans for 14 blocks of three-storey flats in Azalea-terr. redevelopment area.

Sunderland.—Two-storey office block to be built at Pallion Crown Works of Steels Engineering Installations Ltd., and plans by firm approved.—TC approved plans for extending Central Library, Museum and Art Gallery, and three additional classrooms at St. Cuthbert's jun. and infants' sch., Grindon-la. Boro' A: H. C. Bishop (A).

Winchester.—Home Office approved preliminary plans for new divisional police station, £45,000 est. on slum clearance site at North Walls, opposite fire station.

Winchester.—Hampshire CC authorised expenditure up to £20,600 for new ambulance station and six staff houses at Queen's-rd.

Workington.—Cumberland CC proposes extensions to College of Further Education at Park-la.

Wrexham.—Denbighshire CC proposes improvements to Cartrefle College, £40,000 est.

TENDERS

* Denotes *accepted*.
† Denotes *provisionally accepted*.
‡ Denotes *recommended for acceptance*.
§ Denotes *accepted subject to modification*.
¶ Denotes *accepted by H.M. Government Departments*.

Aldridge.—New village hall at Streetly. *Richard Fenwick Ltd. £15,250.

Beeston, Notts.—New factory for T. N. Parr & Co., Ltd. *W. J. Simms, Sons & Cooke, Ltd., Haydn-rd., Nottingham.

Chester.—Extensions to Chester high sch. for EC. *Wm. Tomkinson & Sons, Ltd., 7 Great Newton-st., Liverpool. £147,989.

Crompton.—36 aged persons' bungalows at Hunger Hill estate for UDC. *Egerton Construction Co., Ltd., Melbourne-st., Denton.

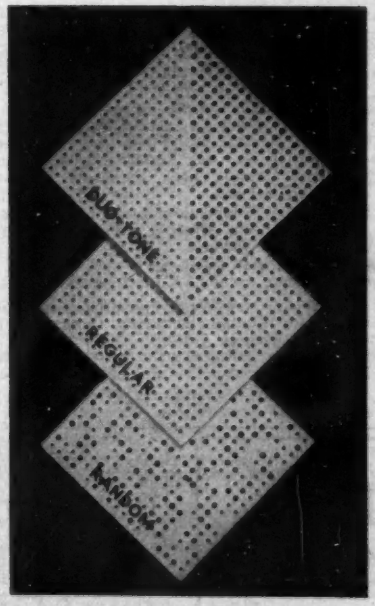
Derbyshire.—Erection of Darley Dale sec. sch., Matlock, for CC. *J. W. Wildgoose & Sons, Ltd., Industrial Works, Matlock.

Durham.—30 houses and six bungalows at Bowburn housing estate for RDC. *Direct labour. £50,494.

Faversham.—36 houses at Lower-rd. estate—eastern section—for BC. Boro' E&S: A. C. E. Richardson, MIMunE. J. W. Ellingham Ltd., £60,502; B. R. Rigden & Son, £56,269; Hawkes Construction Ltd., £50,007; Perryman (Building Contractors) Ltd., £47,166; W. E. Cox (Sheerness) Ltd., £47,066; T. R. Swann & Son Ltd., £46,597; *R. M. Brookes, Ltd., The Square, Lenham. £46,552.

Hebburn, Co. Durham.—61 houses at Toner-ave. for UDC. S: R. C. Bestow. *Direct labour. £72,041 (subject to Ministry approval).

Leeds.—New halls of residence at Westwood for Senate of University of Leeds. *M. Harrison & Co. (Leeds) Ltd., Post Hill Quarries, Farnley, Leeds.



UNITONE
(REGD. TRADE MARK
ACOUSTIC TILES
LIMITED
25 Coptic Street, New Oxford Street, London, W.C.1
LANgham 5736 and MUSeum 7460
Sole Distributors for Scotland:
CHARLES TENNANT & CO. LTD.
22 Blythswood Square, Glasgow, C.2 Tel.: Central 2291/3
Sole Distributors for Northern Ireland:
CHARLES TENNANT & CO. (N. IRELAND) LTD.
P.O. Box 72, 94 Royal Avenue, Belfast
Tel.: 26256 (5 lines) Belfast

¶**London (Air Ministry).**—New works contracts to value of £500 or over for week ended May 29:—*Building work:* Woodbridge, Suffolk, Rogers Bros. Ltd., Walton-hse., Felixstowe, Suffolk; Prestwick, Ayrshire, James Laidlaw & Sons Ltd., Clydesdale Works, Dalmarnock Bridge, Rutherglen, Glasgow; Waddington, Lincs., Frank A. Eccleshare Ltd., Dixon-st., Lincoln; Middleton St. George, Durham, and Harrogate, Yorks. (two contracts), F. Shepherd & Son Ltd., Blue Bridge-la., York. *Artificer's work:* Patrington, Yorks., etc., F. Shepherd & Son Ltd., Blue Bridge-la., York; West Kirby, Ches., Tottey & Capper Ltd., Station Approach, Meols, Wirral, Ches.

¶**London (Metropolitan Police).**—Tenders for building works:—External painting and repairs, Rainham-rd. South and Durham-hse., A. G. Barton & Sons Ltd. £679.—External painting and repairs, Moylan-hse. section house, Killby & Gayford Ltd. £523.—Erection of section house, Golden-la., EC1, Harry Neal Ltd. £180,810.—External painting and repairs and part internal redecorations, Wilson and Maryon Houses and Maygrove-rd., NW., T. H. W. Heal Ltd., £1,804.—External painting and part internal redecorations, Chace-ave., Potters Bar, Druce & Co. (Decorations) Ltd. £772.

¶**London (Ministry of Works).**—Contracts placed for week ended May 30:—*Hampshire:* Inland Revenue offices, Bristol and West-hse., Bournemouth, adaptations, Cooper & Rowe Ltd., Lion Works, Wallisdown-rd., Bournemouth; Lucknow and Mooltan Barracks, Tidworth, high pressure hot water distribution mains, Brightside Heating and Engineering Co. Ltd., Anson-rd., Milton, Portsmouth. *Kent:* Folkestone harbour, erection of Custom House, Medway Buildings & Supplies Ltd., Phoenix Wharf, Rochester. *Lancashire:* Government buildings, Winmarleigh-st., Warrington, pointing of brick work, Walter Peak, 17 Church-st., Warrington. *London:* Post Office Savings Bank, Blythe-rd., W14, alterations to motor room and pit lift No. 3, W. J. Southgate, 65 Kenway-rd., SW5; H.M. Tower of London, widening of wharf road, Fitzpatrick & Son (Contractors) Ltd., 455 Old Ford-rd., E3; Queen Anne's-mans., St. James's Park, SW1, erection and testing of electric passenger lift, Express Lift Co. Ltd., Abbey Works, Weedon-rd., St. James, Northampton; Victoria gate, Hyde Park, widening of gates and roadway, John Mowlem & Co. Ltd., 91 Ebury Bridge-rd., SW1. *Middlesex:* Government training centre, Walmgate-rd., Perivale, oil burning equipment, Heating and General Engineering Co. (Catford) Ltd., 77 Rushey Green, SE6; H.M. Stationery Office, Headstone-dr., Harrow, internal decorations, South London Decorators Ltd., 9 Streatham High-rd., SW16. *Midlothian:* Courts of Law, Parliament-sq., Edinburgh, renewal of electrical installation, James Scott & Co. (Elec. Engs.) Ltd., 21 George IV Bridge, Edinburgh, 1. *Northumberland:* County Court, Westgate-rd., Newcastle upon Tyne, reflooring, refitting and acoustic treatment, James R. Rutherford & Son Ltd., Jesmond-rd., Newcastle-on-Tyne, 2. *Rutland:* Radio station, Oakham, erection, Gee, Walker & Slater Ltd., Uttoxeter Old-rd., Derby. *Warwickshire:* Joint office building, Bagot-st., Birmingham, internal painting, A. Pearce & Sons (Bldg. Ctrs.) Ltd., Victoria-st., Birmingham, 9. *Wiltshire:* Inland Revenue Offices, Bridge-st., Swindon, Heating and DHW installation, S. Boxell & Co., Ltd., Morley-rd., Bristol, 3. *Yorkshire:* Telephone Exchange, etc., Huddersfield, erection, Sir Lindsay Parkinson & Co., 6 Lambeth-rd., SE1; Walkergate-hse., St. Mary's Manor, Beverley, conversion to oil fuel, King & Co. Ltd., South Church Side, Hull.

¶**London (War Dept.).**—Works contracts placed for week ended May 29:—*Co. Antrim:* (Lisburn), roadwork, John McQuillan Ltd., Dunmurray. *Berkshire:* (Shrivenham), roadwork, Constable Hart & Co. Ltd., Portsmouth; (Windsor), miscellaneous, J. Garrett & Son Ltd., SW12. *Hampshire:* (Southampton), painting and decorating, P. J. Hartell (Southern) Ltd., Southampton. *Kent:* (Dover), roadwork, P. A. Barden & Sons Ltd., Maidstone; (Lydd), miscellaneous, J. J. Clayson & Son Ltd., Folkestone. *Monmouthshire:* (Chepstow), building, W. J. Simms, Sons & Cooke, Ltd., Nottingham. *Pembrokeshire:* (Pembroke Dock), re-cladding, Hussey, Egan & Pickmere Ltd., Pembroke. *Somerset:* (Taunton), grass cutting, W. L. Bell, Bridgwater. *Staffordshire:* (Blackshaw Moor area), miscellaneous, W. E. Owen (Builders and Contractors), Stoke-on-Trent. *Surrey:* (Guild-

ford), painting and decorating, T. H. Kenyon & Sons, Ltd., W9. *Sussex:* (Maresfield), electric, D. Alldridge, Southampton; (Crowborough), roadwork, W. & J. Glossop Ltd., SW8. *Wiltshire:* (Bulford), building, Downing Rudman & Bent, Ltd., Chippenham. *Derbyshire:* (Derby), building, Kirkland (Derby) Ltd., Derby. *Northumberland:* (Otterburn), trenching and pits, E. Henderson & Son Ltd., Newcastle upon Tyne. *Nottinghamshire:* (Chilwell), roadwork, Val de Travers Asphalte Ltd., Birmingham. *Yorkshire:* (York), painting, Arundel (Painting Contractors) Ltd., Louth; miscellaneous, Lee-Micklethwait Ltd., York; (Ripon), miscellaneous, Allton & Co. (Contractors) Ltd., Ripon.

Lytham St. Annes.—Erection of St. Bedes RC sec. sch. for RC Diocese of Lancaster. A: C. E. Jackson (L), 73 Harrington-ave., Blackpool. *Hardmans (Builders) Ltd., Best-st., Kirkham, Lancs.

Notts.—Following for CC:—First instalment of Arnold and Carlton College of Further Education. *M. D. Sweeney & Palmer Ltd., Beechdale-rd., Aspley, Nottingham. £199,747.—Completion of Calverton Manor Park prim. sch. *Spooners (Hull) Ltd., Glebe-rd., Stoneferry, Hull. £34,693.—Extensions and adaptations at Newark Lilley and Stone girls' high sch. *M. D. Sweeney & Palmer Ltd. £103,973.—Erection of Huthwaite sec. sch., Sutton-in-Ashfield. *Harold Ashley & Son, Ltd., 1 Church Hill, Mansfield Woodhouse. £103,120.—Extensions and adaptations at Retford county girls' high sch. *Harold Ashley & Son, Ltd. £73,000.

Plymouth.—New prim. sch. at Pomphlett for Devon EC. *E.B.C. & Sleeman, Ltd. £41,790.

Preston.—Erection of St. Joseph's RC jun. sch., Rigby-st., for RC Diocese of Lancaster. *Fleet Builders Ltd., 53 Butts-la., Thornton, Preston.

Rugby.—New Municipal Offices and Town Hall for BC. A: J. C. Prestwich & Sons (F/A), Bradshawgate-chbrs., Leigh, Lancs. *J. Parnell & Son Ltd., Oliver-st., Rugby. £163,920. (Firm price tender.)

Seaham.—104 houses and flats at Eastlea estate and 46 houses and flats in Central area for UDC. Plans by S. *L. W. Evans, Ltd., 18 Norfolk-st., Sunderland.

Seaham.—54 houses on Mission site for UDC. Plans by S. *Direct labour. £57,207.

South Shields.—186 garages, including road and drainage works, on various sites for TC. *Direct labour. £39,000.

South Shields.—Block of offices at Market Place for Sunderland and South Shields Water Co., Ltd., John-st., Sunderland. A: G. T. Brown & Son (F/A), 53 Fawcett-st., Sunderland. *Richard Costain, Ltd., 16 Great North-rd., Newcastle-on-Tyne.

Staveley.—16 bungalows at Middlecroft estate for UDC. *Wm. Drabble & Sons, 32 High-st., Mosboro, nr. Sheffield.

Swinton and Pendlebury.—86 dwellings at Clifton estate for BC. *Direct labour. £117,138.

Thurrock.—New West Thurrock power station, Grays, for Central Electricity Generating Bd. (Southern Project Group). Executive A: A. Stocker (A), Constg. engrs.: Sir Alexander Gibb & Ptnrs. *Richard Costain, Ltd. £3,200,000.

Westminster.—Seven-storey block of flats on site of 16-17 Grosvenor-sq., four-storey block at rear, facing Providence-court, and single-storey link block, all with basements containing garages, boiler houses, servants' bedrooms, etc., for Princes Investments, Ltd. A: Lewis Solomon, Kaye & Ptnrs. (F/A), Thavies Inn-hse., 5 Holborn-circus, EC1. Constg. struct. engr.: W. V. Zinn, MICE. QS: Basil A. Cohen, FRICS, 60 Berners-st., W1. *Token Construction Co. Ltd.

Whiston.—10 aged persons' bungalows at Burrows-la., St. Helens-rd., Eccleston Lane Ends, for RDC. E&S: Watson Garbutt, AMIStructE. H. Bevan (Builders) Ltd.; E. Williams & Sons (Builders) Ltd.; Harold Taylor & Co. (Warrington) Ltd; Kearsley & Gee Ltd.; *Sefton Building Co., Ltd., 67 Ormskirk-rd., Liverpool, 9.

Wolverhampton.—New church of The Epiphany at Lymeer-rd., Oxley, for PCC. *Jenks Builders Ltd., 82 Stafford-st., Wolverhampton.

York.—Maternity and child welfare centre at Fifth-ave. for City C. City A: E. Firth (F), AMTPI. *York Co-op. Socy. Ltd., Nicholas-pl., Hull-rd., York. £11,715.

FEDERATION OF MASTER BUILDERS

FEDERATION OF MASTER BUILDERS

BUILDERS IN THE SOUTHERN COUNTIES REGION

You should join this truly representative organisation

Subscription:
£6 . 6 . 0 per annum
which includes free monthly issue of the **Federation Journal.**

BRANCHES AT:

BOURNEMOUTH & POOLE — OXFORD
BRIGHTON — PORTSMOUTH
HIGH WYCOMBE — READING
EAST KENT — SOUTHAMPTON
WEST KENT — EAST SUSSEX
WOKING

THE FEDERATION OF MASTER BUILDERS
33, JOHN STREET, HOLBORN, LONDON, W.C.1
Tel.: CHAncery 7343

Please send particulars of the advantages of membership to:

12/6/59

PLEASE CUT ALONG DOTTED LINES

THE ESSEX STEEL SCAFFOLDING Co LTD
SALES, HIRE
ERECTION
CRADLES
9A HIGH BEECH ROAD
LOUGHTON ESSEX
TEL: LOUGHTON 5022

FLOORINGS OF ALL KINDS
WOOD BLOCK-PARQUET CORK
SOLID T & G HARDWOOD STRIP
Stevens & Adams Ltd
POINT PLEASANT · WANDSWORTH · S.W.18
TELEPHONE: VANdyke 0555/6

GALBRAITH
BROTHERS LIMITED
BUILDERS
CONTRACTORS
& ENGINEERS
Registered Office: 61 BARTHOLOMEW CLOSE E.C.1 MONarch 7597-8
Works: CRAYFORD BRIDGE KENT CRAyford 25544-5-6-7

for BUILDING DECORATING MAINTENANCE and REPAIRS
'phone Waterloo 5474
Consult
W. & M. NEGUS LTD.
Station Works,
KING JAMES STREET, S.E.1
and DOYLE ROAD,
SOUTH NORWOOD, S.E.25.
(Addiscombe 3427)
NEGUS of SOUTHWARK

OFFICIAL ANNOUNCEMENTS

COMPETITIONS CONTRACTS PUBLIC APPOINTMENTS

Rate: 30/- per inch, minimum ½-inch; each additional line 2/-

COMPETITION

URBAN DISTRICT COUNCIL OF CORBY.

ARCHITECTURAL COMPETITION FOR CIVIC CENTRE.

The promoters, the Urban District Council of Corby, invite ARCHITECTS resident in Great Britain and Northern Ireland to submit designs in competition for a proposed Civic Centre, to include Municipal offices, Council Chamber, etc., Public Assembly Halls and Swimming Bath, to be erected on a site in the Town Centre of this NEW TOWN.

The promoters have appointed Mr. Edward D. Mills, C.B.E., F.R.I.B.A., F.R.S.A., of London, to adjudicate on the designs received and to make the award.

PREMIUMS :—

1st Prize, £1,000 (to be merged with the fee).

2nd Prize, £750.

3rd Prize, £500.

For the purpose of this competition, the word "architect" shall mean persons who are registered under the Architects (Registration) Acts, 1931 and 1938, and resident as mentioned above. Any applicant for the conditions must state his registration number; if application is made by a firm, the registration numbers of the architect partner or partners of the firm must be given.

Applications for Conditions, Schedule of Accommodation, site plan, etc., must be accompanied by a deposit of £2 (cheques being made payable to the Urban District Council of Corby) and are to be addressed to the undersigned. Deposits will be returned on receipt of a bona fide design and after the award has been published or, in the event of the applicant declining to compete, on the return of the competition documents at least four weeks before the date for submitting designs.

G. B. BLACKALL,
Clerk of the Council.

Council Offices,
Corby,
Northants.
23rd May, 1959.

CONTRACTS

WIRKSWORTH URBAN DISTRICT COUNCIL.

TENDERS are invited for the ERECTION OF TWO PAIRS OF TWO BEDROOM HOUSES (Type "L") and ONE PAIR OF BUNGALOWS (Type "M"), with consequent site and road works.

TENDERS are also required for the ERECTION OF FOUR GARAGES.

The Contracts will be fixed price Contracts.

The Drawings may be inspected at the Surveyor's Office, Town Hall, Wirksworth, or at the office of the Council's Architect, Mr. J. L. Bakewell, L.R.I.B.A., 25 Chapel-street, Belper, from whom Forms of Tender, Specifications and Bills of Quantities may be obtained on deposit of £2 2s. 0d., which will be returned on receipt of a bona fide Tender and all documents.

Tenders endorsed "Tenders for Houses" or "Tenders for Garages," or both, but bearing no other mark of indication of the tenderer, should reach the undersigned not later than noon on SATURDAY, the 20th JUNE, 1959.

The Council do not bind themselves to accept the lowest or any Tender.

H. HAWORTH,
Clerk of the Council.

Town Hall,
Wirksworth.
2nd, June, 1959.

COUNTY BOROUGH OF BOURNEMOUTH.

TO BUILDING CONTRACTORS.

TENDERS are invited on a FIXED PRICE basis for the PROPOSED EXTENSIONS TO THE NORTH CEMETERY CREMATORIUM. (Approximate superficial area 2,220 sq. ft.)

Bills of Quantities and Tender Forms obtainable from and Conditions of Contract and Drawings inspected at Borough Architect's office (Room 106), Town Hall, on payment of £2 2s. 0d. deposit, to be refunded on receipt of bona fide Tender not subsequently withdrawn and return of all documents supplied.

Tenders to be received by me not later than 10 a.m. 15th JULY, 1959.

A. LINDSAY CLEGG,
Town Clerk.

HAMBLEDON RURAL DISTRICT COUNCIL.

ERECTION OF TEN AGED-PERSONS' BUNGALOWS AT SITES AT ELSTEAD, CHIDDINGFOLD AND CRANLEIGH.

TENDERS are invited from Building Contractors for the ERECTION OF BUNGALOWS on the above sites as follows:—

Hazelwood, Elstead, 3 pairs of bungalows.

Turners Mead, Chiddingfold, 1 pair of bungalows.

Glebe-road, Cranleigh, 1 single bungalow.

Wyphurst-road, Cranleigh, 1 single bungalow.

Contractors may Tender for all, or any, of the dwellings referred to above.

Plans, Specification, Bills of Quantities and Form of Tender may be obtained from the Engineer and Surveyor on payment of deposit of £2 2s. 0d. returnable on receipt of a bona fide Tender and the return of all documents. (Cheques should be made payable to the Hambledon Rural District Council, crossed Lloyds Bank, Limited, and sent to the Treasurer, Council Offices, Bury Fields, Guildford.)

Conditions of Contract and lay-out plans may be inspected at the Office of the Engineer and Surveyor during normal office hours.

Tenders in the endorsed envelopes provided are to be returned to the undersigned not later than 12 NOON on MONDAY, the 6th JULY, 1959.

The Council do not bind themselves to accept the lowest, or any Tender.

The acceptance of any Tender will be subject to the approval of the Ministry of Housing and Local Government.

Dated this 2nd day of June, 1959.

ROBIN J. GARLAND,
Clerk of the Council.

Council Offices,
Bury Fields,
Guildford.

CHESTERFIELD RURAL DISTRICT COUNCIL

invite Tenders for the completion of the following scheme:—

18 DWELLINGS AT NORTH SIDE, TUPTON.

Plans may be seen, and Bills of Quantities obtained from the office of the Council's Engineer and Surveyor, Rural Council House, Saltergate, Chesterfield, on payment of a deposit of £2 2s. 0d. by cheque, refundable on receipt of a bona fide tender not subsequently withdrawn.

Tenders on the prescribed form, and in the separately endorsed envelopes provided, and bearing no mark or indication of the sender, must be returned to the undersigned by not later than 10 a.m. on FRIDAY, 3rd JULY, 1959, when they will be opened. Tenders received after that time will be rejected.

Priced Bills of Quantities must also be returned in the envelopes provided. These will be returned unopened to the unsuccessful tenderers.

H. O. HAWKINS.
Clerk of the Council.

BOROUGH OF FLINT.

MANOR ESTATE AND THE WERN SEWERAGE, BAGILLT.

A FIXED PRICE TENDER is invited from competent Contractors for the above.

The works include the CONSTRUCTION OF AN EJECTOR STATION, A PUMP STATION, and LAYING OF ABOUT 650 YARDS OF 4 IN. RISING MAIN and about 2,700 YARDS OF 6 IN. DIAMETER SEWERS COMPLETE WITH MANHOLES, etc.

Copies of Bills of Quantities and Specification may be obtained on application to Messrs. Williams & Clarke, Chartered Civil Engineers, 6 Godstall Chambers, Chester, upon receipt of a cheque for £2 2s. 0d. made payable to the Borough Council, which will be refunded on receipt of a bona fide tender and priced Bill of Quantities not subsequently withdrawn.

Working Drawings may be inspected at the office of the Engineers at Chester by appointment.

Tenders, in plain sealed envelopes, must be delivered to the undersigned not later than 5 p.m. on FRIDAY, the 3rd day of JULY, 1959.

The Council do not bind themselves to accept the lowest or any tender.

WILLIAM McINTYRE,
Town Clerk.

Town Hall,
Flint.
3rd June, 1959.

BERKSHIRE COUNTY COUNCIL.

TENDERS are invited for the ERECTION of a NEW AMBULANCE STATION and TWO FIREMEN'S HOUSES at Shaw Estate, Newbury. Bills of Quantities and Forms of Tender can be obtained on application to the County Architect, Wilton House, Parkside-road, Reading, enclosing a deposit of two guineas, which will be returned on receipt of a bona fide Tender, not subsequently withdrawn.

Tenders must be returned in the envelope provided by NOON, on TUESDAY, 7th JULY, 1959.

The Council does not bind itself to accept the lowest or any Tender.

BOROUGH OF TOTTENHAM.

626/32 HIGH-ROAD AND LAND AT REAR.

44 DWELLINGS AND DOCTOR'S ACCOMMODATION.

Builders wishing to TENDER are requested to notify the Borough Engineer, Town Hall, Tottenham, N.15, not later than 22nd JUNE, 1959, quoting "B," together with £2 2s. 0d. deposit, refundable upon the submission of a bona fide tender. Plans may be seen at the Town Hall, N.15.

As soon as possible after the receipt of the deposit, copies of the Bills of Quantities, Form of Tender and all necessary documents will be forwarded to the applicants, stating the closing date for the receipt of tenders.

The Council do not bind themselves to accept the lowest or any tender.

M. LINDSAY TAYLOR,
Town Clerk.

Town Hall,
Tottenham, N.15.

COUNTY BOROUGH OF ST. HELENS.

ERECTION OF A BLOCK OF SIX POLICE FLATS.

SUTTON MANOR, ST. HELENS.

The St. Helens Corporation invite TENDERS for the ERECTION AND COMPLETION OF A TWO STOREY BLOCK OF SIX FLATS to be built in traditional construction on a site fronting onto Forest-road and Feeney-street, Sutton Manor, St. Helens.

Bills of Quantities and Forms of Tender may be obtained from the undersigned on the payment of £2 2s. 0d. which will be returned on the receipt of a bona fide tender.

Working drawings and Conditions of Contract may be inspected at the Architectural Office, 5 Cotham-street, St. Helens.

Tenders must be delivered, sealed in the envelope provided, to the Town Clerk, Town Hall, St. Helens, not later than MONDAY, 6th JULY, 1959.

The Corporation do not bind themselves to accept the lowest or any tender.

M. WARD, M.I.Mun.E.,
Borough and Water Engineer.

Town Hall,
St. Helens.

BOROUGH OF SHREWSBURY.

FRANKWELL REDEVELOPMENT. PART I. FOUR FLATS AND FOUR MAISONETTES.

TENDERS are invited for a fixed price contract for the DEMOLITION OF 117 TO 123A FRANKWELL and the ERECTION ON A REINFORCED CONCRETE PIER AND BEAM FOUNDATION OF FOUR FLATS WITH FOUR MAISONETTES OVER COMPLETE WITH OUTBUILDINGS AND SITE WORKS.

Specifications, drawings, bills of quantities and forms of Tender may be obtained from and conditions of contract may be seen during office hours at the office of the Borough Surveyor, Guildhall, Shrewsbury, on and after June 27, on payment of £2 2s. 0d. which will be returned on receipt of a bona fide Tender and the remaining documents.

Tenders on the prescribed form, sealed in the envelope provided and bearing no mark of identification, are to be received by the undersigned not later than 10 a.m. on FRIDAY, 17th JULY, 1959.

The Council do not bind themselves to accept the lowest or any other Tender.

S. R. H. LOXTON,
Town Clerk.

Guildhall,
Shrewsbury.
May, 1959.

COUNTY BOROUGH OF CROYDON.

NEW HOSTEL FOR 80 OLD PEOPLE.

Contractors wishing to TENDER for BUILDING A NEW HOSTEL at the rear of Queens-road Hospital are invited to apply to the Borough Engineer for Tender Form and Bills of Quantities.

Closing date for tenders 12 noon 15th JULY, 1959.

E. TABERNER,
Town Clerk.

Town Hall,
Croydon.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

TENDERS are invited for INTERNAL (PART) PAINTING at the County Welfare Establishment, Northgate Lodge, Pontefract.

Applications to Tender must be addressed to the Divisional Architect, Bishopgarth, Westfield-road, Wakefield, and received not later than Monday, the 22nd June, 1959, and the relevant documents will be despatched that day.

The Contract will be under the County Council's General Conditions of Contract.

Sealed Tenders must be addressed to me, the undersigned and received at Room 5, County Hall, Wakefield, not later than 12 NOON on MONDAY, the 6th JULY, 1959.

BERNARD KENYON,
Clerk of the County Council.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

TENDERS are invited for BUILDERS WORK in connection with REORGANISATION OF MAIN KITCHEN at Northgate Lodge, Pontefract.

Plans and specification are now available for inspection at the office of the County Architect, Bishopgarth, Westfield-road, Wakefield.

Applications to Tender must be addresssed to the County Architect, Bishopgarth, Westfield-road, Wakefield, and received not later than Tuesday, the 16th June, 1959, and the relevant documents will be despatched that day.

The Contract will be under the provisions of the R.I.B.A. Conditions and Form of Agreement.

Sealed Tenders must be addressed to me, the undersigned, and received at Room 5, County Hall, Wakefield, not later than 12 NOON on TUESDAY, the 30th JUNE, 1959.

BERNARD KENYON,
Clerk of the County Council.

CHEADLE AND GATLEY URBAN DISTRICT COUNCIL.

The above Council invite TENDERS for the supply of ONE HOLLOW CHISEL MORTISING AND BORING MACHINE.

Specification and Form of Tender can be obtained from Mr. Duncan S. Graham, Engineer and Surveyor, Town Hall, Abney Hall, Cheadle, Cheshire.

Tenders, in plain sealed envelopes, endorsed "Mortising Machine" are to be delivered to the undersigned on or before 10 a.m. on WEDNESDAY, 8th JULY, 1959.

The Council do not bind themselves to accept the lowest or any Tender.

W. TIMPERLEY,
Clerk to the Council.

Town Hall,
Abney Hall,
Cheadle, Cheshire
4th June, 1959.

CITY OF SALFORD.

PROPOSED BOWLS PAVILION AT ORDSALL-PARK, TRAFFORD-ROAD, SALFORD, 5.

Firm Price TENDERS are invited for the proposed BOWLS PAVILION at Ordsall-park, Trafford-road, Salford, 5.

Conditions of Contract and Drawings may be inspected at, and Bill of Quantities and Form of Firm Price Tender obtained from, the City Engineer and Surveyor's Dept., Town Hall, Salford, 3, on payment of a deposit of £2 2s. 0d. which will be returned on submission of a bona fide Firm Price Tender not subsequently withdrawn.

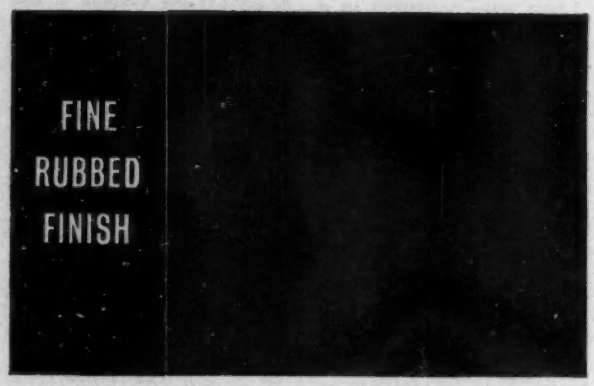
Firm Price Tenders on the prescribed form, sealed in the envelope provided and bearing no other mark, or identification, must be forwarded to the undersigned so as to be received not later than 10 a.m. on WEDNESDAY, 1st JULY, 1959.

The Council does not bind itself to accept the lowest or any Firm Price Tender.

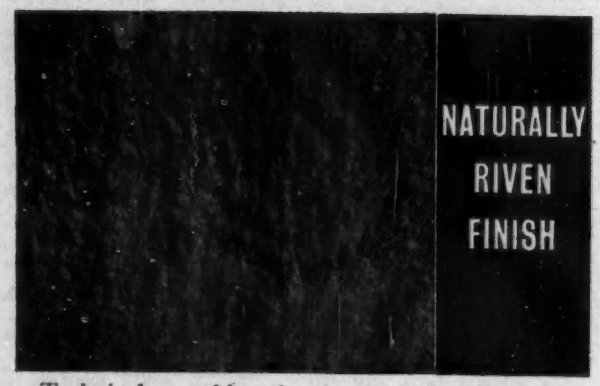
R. RIBBLESDALE THORNTON,
Town Clerk.

Lasting beauty

in Broughton Moor



Green Slate



Technical pamphlets showing typical methods of fixing are available on application:

1. Flooring 2. Facings. 3. Coping. 4. Cills 5. Riven Face Slabs.

In three distinct colours Light Sea Green, Olive Green and Pale Green Barred

Broughton Moor

GREEN SLATE QUARRIES LTD.

CONISTON, THE LAKE DISTRICT, LANCS. Tel: CONISTON 225/6

COUNTY BOROUGH OF GREAT YARMOUTH.

EIGHT AGED PERSON'S BUNGALOWS, WARDEN'S FLAT AND COMMUNAL UNIT, ADDISON-ROAD, GORLESTON.

FIXED-PRICE TENDERS are invited for the ERECTION of the above. Form of tender and Bills of Quantities obtainable from Borough Engineer's office on 18th JUNE, where working drawings and contract conditions may be inspected. Deposit of £2 2s., returnable upon receipt of a bona fide tender not subsequently withdrawn, is required.

Tenders in the envelope provided must be delivered to me not later than first post, TUESDAY, 7th JULY, 1959. The Council does not bind itself to accept any tender.

FARRA CONWAY,
Town Clerk.

Town Hall,
Great Yarmouth.
3rd June, 1959.

PAROCHIAL CHURCH COUNCIL OF ST. LUKE AND ST. MARK, WINCHESTER.

Invitation to TENDER.
NEW PARISH CHURCH OF ST. LUKE, WINCHESTER.

TENDERS are shortly to be invited, on behalf of the Parochial Church Council, for the ERECTION OF A NEW PARISH CHURCH of traditional construction to be built at Stanmore, Winchester.

Contractors with suitable experience wishing to be considered for inclusion in the list of tenderers, should notify the Architect, C. W. T. Evans, A.R.I.B.A., Wolvesey Palace, College-street, Winchester, not later than the 27th JUNE, giving particulars of similar works undertaken.

EXMOUTH URBAN DISTRICT COUNCIL.

PROPOSED EXTENSIONS AND ALTERATIONS TO THE COUNCIL OFFICES, ST. ANDREW'S-ROAD, EXMOUTH.

FIXED PRICE TENDERS are invited from experienced Building Contractors for the above works which consist of a steel framed annexe of approximately 87,000 cubic feet and the provision of a second floor over and extensive alterations to the existing building which has a capacity of approximately 58,000 cubic feet.

Copies of the Drawings, Specification, Bills of Quantities and Form of Tender may be obtained from the Engineer and Surveyor, R. J. Humphreys, M.I.Mun.E., Council Offices, Exmouth, on receipt of a deposit of three guineas, which will be refunded on the receipt of a bona fide Tender.

Tenders in the envelope provided endorsed "Tender for Extensions and Alterations to the Council Offices," must be delivered to the undersigned by not later than NOON on TUESDAY, the 30th of JUNE, 1959.

The Council does not bind itself to accept the lowest or any Tender.

R. S. BAGSHAW,
Clerk and Solicitor

Council Offices,
Exmouth.

CITY OF SALFORD.

PROPOSED PUBLIC CONVENIENCES AT DAVID LEWIS RECREATION GROUND, FREDERICK-ROAD, SALFORD, 6.

Firm price TENDERS are invited for the proposed PUBLIC CONVENIENCES at David Lewis Recreation Ground, Frederick-road, Salford, 6.

Conditions of Contract and Drawings may be inspected at, and Bill of Quantities and Form of Firm Price Tender obtained from, the City Engineer and Surveyor's Dept., Town Hall, Salford, 3, on payment of a deposit of £2 2s. 0d. which will be returned on submission of a bona fide firm price Tender not subsequently withdrawn.

Firm price Tenders on the prescribed form, sealed in the envelope provided and bearing no other mark or identification, must be forwarded to the undersigned so as to be received not later than 10 a.m. on WEDNESDAY, 1st JULY, 1959.

The Council does not bind itself to accept the lowest or any Firm Price Tender.

R. RIBBLESDALE THORNTON,
Town Clerk.

BOROUGH OF HESTON AND ISLEWORTH.

NEW DEPOT,
BRIDGE-ROAD, ISLEWORTH.

TENDERS are invited for ERECTING A NEW WORKS DEPOT (first stage) of OFFICES WITH FLATS OVER AND WORKS BUILDINGS. Apply to Borough Surveyor, 88 Lampton-road, Hounslow, with Two Guineas deposit (to be refunded if a bona fide Tender is submitted and not withdrawn) for Tender Form and Bills of Quantities. Tenders must reach me in envelope provided by 10 a.m., 21st JULY, 1959. The Council are not bound to accept any Tender.

Town Hall, D. MATHIESON,
Hounslow, Town Clerk
Middlesex.

CORPORATION OF BARKING.

PRE-FABRICATED GARAGES.

The Council invites applications to TENDER for the SUPPLY AND ERECTION IN GROUPS OF TWO SITES, ON PREPARED FOUNDATIONS, OF 56 PRE-CAST CONCRETE POST AND HORIZONTAL PANEL CONSTRUCTION GARAGES WITH ASBESTOS ROOFS. Specification and drawings will be supplied to selected applicants.

Applications to tender on a form to be obtained from the Borough Architect, Town Hall, Barking, should reach the undersigned not later than 10 a.m. on the 19th JUNE, 1959.

E. R. FARR,
Town Clerk.

Town Hall,
Barking.

ISLINGTON BOROUGH COUNCIL

invites TENDERS for the CLEANING OF STONE WORK at the West Branch Library, N.1. Tender documents available from the Borough Engineer and Surveyor, Town Hall, Upper-street, N.1, are returnable by TUESDAY, 7th JULY, 1959.

BOROUGH OF SCUNTHORPE.

TRADITIONAL FLATS.

Registered Building Contractors wishing to TENDER for the CONSTRUCTION OF ONE 3-STOREY BLOCK OF 60 SINGLE PERSONS' ONE-BEDROOM FLATS AND 9 GARAGES at Ashby-road, Scunthorpe, are invited to submit their names to the Borough Surveyor, Laneham-street, Scunthorpe, on or before 26th JUNE, 1959.

If selected, contractors will be asked to furnish a deposit of £2 2s. 0d. returnable on receipt of a bona fide tender or return of the documents.

The Council do not bind themselves to accept the lowest or any tender and acceptance is subject to the approval of the Ministry of Housing and Local Government.

It is a condition of the contract that the successful tenderer will be required to enter into a bond, and contractors tendering must be prepared to give an undertaking to complete the works within 15 months from possession of site.

T. M. LISTER,
Town Clerk.

Municipal Offices,
34 High-street,
Scunthorpe.
4th June, 1959.

COUNTY BOROUGH OF IPSWICH.

CIVIC COLLEGE.

Applications to TENDER are invited for the SUPPLYING AND THE SUPPLYING AND FIXING OF FURNITURE in the above new College. Furniture is of three categories, each category containing loose furniture to be supplied only, and furniture to be supplied and fixed :—

(1) Heavy engineering and building laboratory benching.
(2) Tables and cupboards.
(3) Miscellaneous fittings.

Tenders may be submitted for all or separate items.

Applications for form of Tender, drawings and specifications must reach the office of the Architects, Johns, Slater and Haward, F/A.R.I.B.A., 32 Foundation-street, Ipswich, not later than FRIDAY, 26th JUNE, 1959.

Applicants will be informed in due course of the details of Tendering procedure and dates for submission but Tenders must be delivered to me in plain sealed envelopes bearing no name or mark to indicate the sender and endorsed "Tender for furniture—Civic College." The Council do not bind themselves to accept the lowest or any Tender.

J. C. NELSON,
Town Clerk.

Town Hall,
Ipswich.

NEWCASTLE REGIONAL HOSPITAL BOARD.

STOCKTON AND THORNABY HOSPITAL,
STOCKTON ON TEES.

The Board proposes to carry out structural alterations and extensions to part of the ground floor of the above hospital (approximate floor area 3,300 square feet), to provide a new Casualty Department including an Operating suite.

Tender documents will be ready for issue to Contractors during JUNE, 1959, and it is expected that it will be possible for building operations to commence in AUGUST, 1959.

The project has been planned and will be carried out under the direction of Mr. E. W. Chapman, A.R.I.B.A., of 125 Acklam-road, Thornaby on Tees, in collaboration with the Regional Architect, Mr. P. H. Knighton, M.B.E., A.R.I.B.A.

Contractors wishing to tender for this work are asked to notify the Secretary of the Board, Benfield-road, Newcastle upon Tyne, 6, by not later than 18th JUNE, 1959. A limited number of Contractors may be selected and invited to tender, and the lowest or any tender will not necessarily be accepted.

COSELEY

Work in progress on steelwork and sheeting simultaneously for the fourteenth Coseley Building to be erected for the Rover Co. Ltd., at Solihull. Completed in approximately six weeks, this assembly shop for Landrovers measures 700ft. long × 75ft. wide × 20ft. to eaves.

economy with quality

The makers of a motor car famous for the quality of its craftsmanship naturally select a building which enjoys a similar reputation for design, durability and dependability. This is true economy.

SEND FOR OUR BROCHURE.

Coseley Buildings Ltd

LANESFIELD · WOLVERHAMPTON · ENGLAND

BILSTON 41927 (10 lines)

LONDON OFFICE: 41-46 PICCADILLY W.1.

Makers of Steel Frame Buildings and Kingstrand Houses

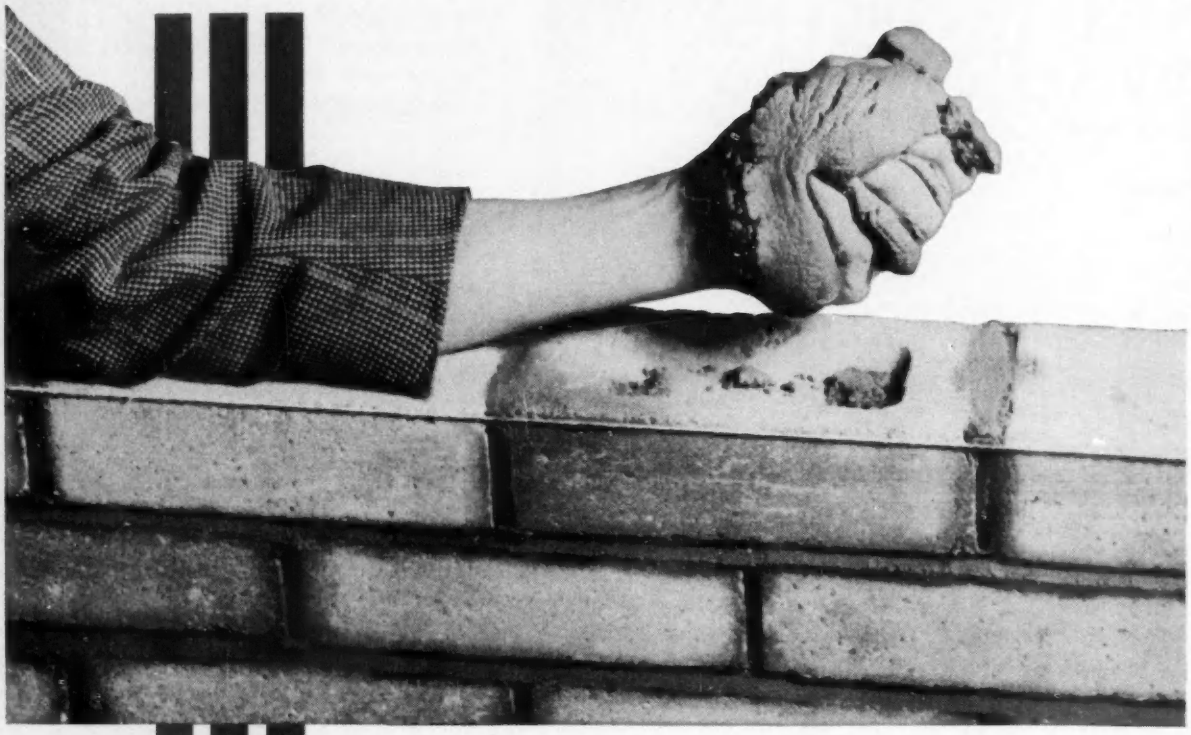
—buildings for all purposes—

—buildings for all climates—

G

Rover choose Coseley

1



For plasticity and firmness

Plasticity during application and firmness in situ are qualities which characterise a mortar made with Tunnel Masonry Cement. This material is composed of cement, fillers and plasticisers in finely adjusted proportions. No lime is used in its manufacture, so there is absolutely no risk of blowing, spalling or disintegration when Tunnel Masonry Cement is used. On the contrary the mortar works well, stiffens quickly enough, has adequate strength, bonds well, is durable and provides a pleasing finish.

THE TUNNEL PORTLAND CEMENT COMPANY LIMITED · LONDON ·

A TUNNEL PRODUCT

TUNNEL

MASONRY CEMENT

THE TUNNEL PORTLAND CEMENT COMPANY LTD.
105 Piccadilly, London, W.1. Telephone: GROsvenor 4100

CVS-14

SO STRONG...

YET SO EASY TO BEND

TIMBERIT

hardboard

1/8" 3/16" 1/4" 5/16" 3/8" 7/16" & 1/2"

Write for samples and names of your local stockists to:

THOMAS SIMSON & COMPANY LIMITED

6 GREAT WINCHESTER STREET, LONDON, E.C.2.

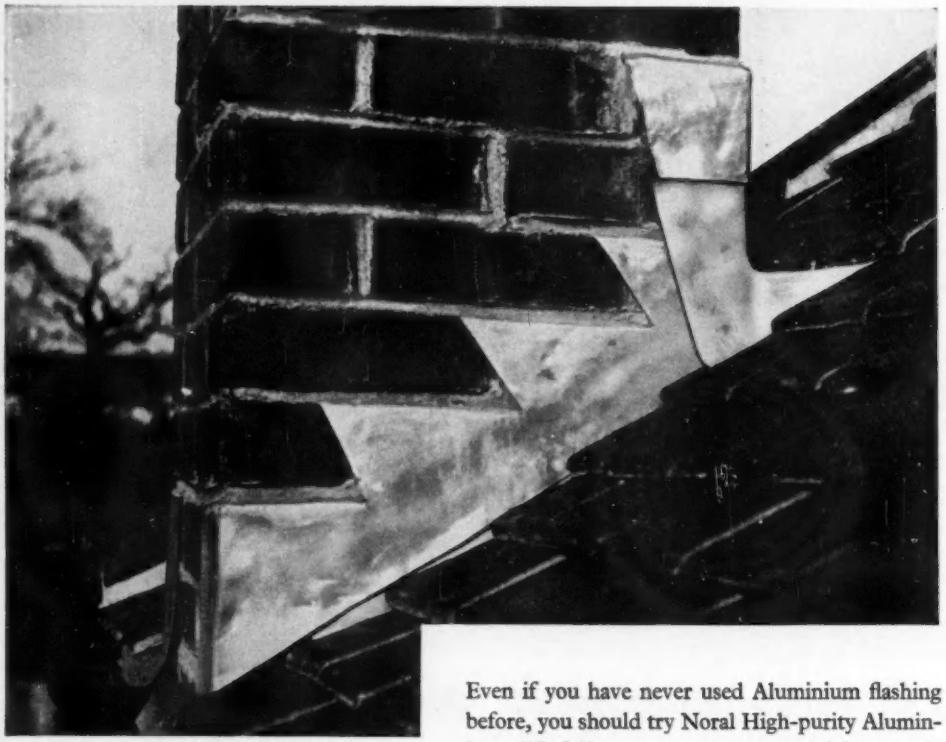
Manufactured in the Union of South Africa by:

THE AFRICAN BUILDING BOARD CORPORATION LIMITED

STOCKED BY ALL LEADING TIMBER AND BUILDERS' MERCHANTS

News Flash!

Noral HIGH PURITY ALUMINIUM FLASHING



Easy to work - permanent - keeps down flashing costs with more profit to you

Even if you have never used Aluminium flashing before, you should try Noral High-purity Aluminium. Why? Because here is a material (less costly than lead or copper) which will increase the profitability of any flashing job you do – it forms easily and gives a sound, long-lasting, trouble free result. Noral High-purity Aluminium can be readily applied to flat, pitched, or domed roofs and is easily jointed by flat seams, standing or roll joints as in normal roofing practice.

Noral High-purity Aluminium (99·7% pure) is supplied in rolls or in flat sheets as required. Ask your Merchant or write now for full information, technical leaflet and the name of your nearest supplier.

Noral NORTHERN ALUMINIUM COMPANY LTD

Always taking a weight off somebody's mind!

NORTHERN ALUMINIUM CO LTD · BUSH HOUSE · ALDWYCH · LONDON · WC2 · TEL: TEMPLE BAR 8430
An Aluminium Limited Company

Noral

TAW/138

CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

The Children's Committees invite FIRM PRICE TENDERS for EXTENSIONS AND IMPROVEMENTS to COTTAGES at Shenley Fields Cottage Homes, Northfield.

Bills of Quantities will be forwarded on payment of £2 2s. 0d. at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 16th JUNE, 1959. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's office during normal working hours.

The deposit will be returned on receipt of a bona fide tender or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. 151), Council House, Birmingham, 1, not later than 12 noon on WEDNESDAY, the 8th JULY, 1959. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any tender.

J. F. GREGG,
Town Clerk.

The Council House,
Birmingham, 1.

CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

AGED PERSONS' HOME, PARK HILL, HANDSWORTH.

The Welfare Committee invites Contractors willing to TENDER for the above HOME FOR 76 RESIDENTS AND STAFF, to apply for inclusion in the list from which the firms to be invited to tender will be selected.

Tenders will be invited on a firm price basis within the immediate future, and the successful Contractor would be expected to be able to start work directly he received notice of the acceptance of his tender.

The Contract will include the construction of a two-storey, load bearing brick, building, and site works.

Applications should be received by the Town Clerk (Room No. B.79), Council House, Birmingham, 1, not later than 12 noon on TUESDAY, 16th JUNE, 1959.

J. F. GREGG,
Town Clerk.

The Council House,
Birmingham, 1.

HUNTINGDONSHIRE EDUCATION COMMITTEE.

PROPOSED NEW SECONDARY MODERN SCHOOL.

ORTON LONGUEVILLE.

Contractors desirous of submitting a FIXED-PRICE TENDER for the above mentioned project are invited to submit their names to S. M. Holloway, A.R.I.B.A., County Architect, County Buildings, Huntingdon, by not later than 12 noon, FRIDAY, 26th JUNE, 1959.

From the names submitted a panel of contractors will be selected to whom tender documents will be sent on or about 20th JULY, for tenders to be received on or about 22nd AUGUST, 1959.

For the guidance of contractors the school will accommodate some 520 pupils, and is basically of load bearing brick construction.

A. C. AYLWARD,
Clerk of the County Council.

County Buildings,
Huntingdon.
11th June, 1959.

COUNTY BOROUGH OF ROTHERHAM.

IMPROVEMENT AND PROPERTY COMMITTEE.

ALL SAINTS' BUILDINGS, ROTHERHAM.

The Corporation invites applications from Building Contractors who wish to TENDER for the completion of a block of shops and offices in Corporation-street, Rotherham.

The buildings are of steel framed construction with basements and three storeys over and of a total superficial area of approximately 26,000 square feet.

Tenders will not allow for any fluctuations in the rates of labour and materials during the course of the Contract.

Forms of Tender and Bills of Quantities will be forwarded as soon as possible after receipt of application, which should be made to the Borough Engineer, Municipal Offices, Rotherham, not later than 10 a.m., FRIDAY, 19th JUNE, 1959, accompanied by a deposit of five guineas, which will be refunded on receipt of a bona fide tender.

The Corporation does not bind itself to accept the lowest or any tender.

JOHN S. WALL,
Town Clerk.

Municipal Offices,
Rotherham.
4th June, 1959.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

RESURFACING OF PLAYGROUND AND NEW PAVED AREAS.

TENDERS are invited for the above, and works incidental thereto.

General Conditions of Contract may be inspected, and copies of Form of Tender, Specification and Drawings obtained on and after THURSDAY, 11th JUNE, 1959, on application to the Borough Architect, 30 Alexandra-street, Southend-on-Sea.

Sealed tenders addressed to the undersigned and endorsed "Resurfacing of Playground, etc.", are to be delivered to this office before 3 p.m. on WEDNESDAY, 1st JULY, 1959, and no tender received thereafter will be considered.

No tender will be received except in the special envelope provided, which shall not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any tender.

ARCHIBALD GLEN,
Town Clerk.

PUBLIC APPOINTMENTS

COUNTY BOROUGH OF ST. HELENS.

Applications are invited for the appointment of two ARCHITECTURAL ASSISTANTS, within A.P.T. Grades I-II (£610-£880) in the Borough Engineer's Department.

The commencing salaries will be fixed within the grades according to qualifications and experience.

The appointments will be terminable by one month's notice and will be subject to the Local Government Superannuation Acts, medical examination and N.J.C. service conditions.

Applications, giving the names of two referees must be forwarded to the undersigned not later than MONDAY, the 22nd JUNE, 1959.

Applicants must reveal relationship to any member or senior official of the Council.

Canvassing will disqualify.

M. WARD, M.I.Mun.E., M.T.P.I.,
Borough Engineer.

Town Hall,
St. Helens.

NOTTINGHAMSHIRE COUNTY COUNCIL.

APPOINTMENT OF ASSISTANT ARCHITECTS.

Applications are invited from students who have passed the final examination of the R.I.B.A. or the Diploma examination of a recognised School or from qualified Architects, to work on the County Council's major building programmes. These programmes are handled by four groups of approximately eight Architects per group, under a Group Leader. All the Architects in the group carry out in turn the design, organisation and supervision of projects as Job Architects through all stages of the job from sketch plan to completion.

As part of carrying out the County Council's building programme, the office has a policy of continuous development in planning and construction, on which all Architects take part from time to time. In the planning of new buildings, research into the detailed requirements is carried out jointly with the client department. Time is allowed for this research as part of the sketch plan period. On construction, the office is committed to the design, development and control of component prefabrication for all major types of building. The responsibilities of the department also include design of furniture and equipment for all types of County Council buildings.

The posts are within the A.P.T. Special Scale (range £785-£1,070). Commencing salary according to ability and experience. Starting dates by agreement.

Forms of application may be obtained from the County Architect, County Hall, West Bridgford, Nottingham, to whom they should be returned as soon as possible.

A. R. DAVIS,
Clerk of the County Council.

BOROUGH OF SOLIHULL.

APPOINTMENT OF
(a) HEATING AND VENTILATING ENGINEER.
(b) SENIOR ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the above appointments in the Borough Surveyor's Department. The salary in respect of post (a) will be in accordance with A.P.T. Grade V (£1,220-£1,375 per annum), and for post (b) in accordance with A.P.T. Grade IV (£1,065-£1,220 per annum).

Applicants for the post as Heating and Ventilating Engineer must be Associate Members of the Institute of Heating and Ventilating Engineers and be capable of designing and detailing heating, hot water and ventilating installations. Experience in electrical engineering would be an advantage.

Applicants for the post of Senior Assistant Quantity Surveyor should be Chartered Quantity Surveyors and have considerable experience in taking off, preparation of final accounts and approximate estimating for educational, housing and other works undertaken by a Local Authority.

The appointments are subject to the provisions of the Local Government Superannuation Acts; the National Scheme of Conditions of Service and to one month's notice on either side.

Where appropriate, housing accommodation will be provided and half removal expenses paid.

Applications, giving full particulars of present and past appointments, together with the names and addresses of two referees should be submitted to the Borough Engineer and Surveyor, 90 Station-road, Solihull, Warwickshire, not later than MONDAY, 29th JUNE, 1959.

W. MAURICE MELL,
Town Clerk.

RADNORSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned permanent appointments in the County Architect's Department:—

(a) QUALIFIED ARCHITECTURAL ASSISTANT (must be A.R.I.B.A.). Salary in accordance with Special Grade for qualified assistants having at least five years' experience (i.e. £750 x £40-£1,030 per annum).

Should be experienced in contemporary school architecture.

(b) QUALIFIED QUANTITY SURVEYOR (must be A.R.I.C.S.). Special Grade, £750 x £40-£1,030 per annum.

Required for preparation of Bills of Quantities, Estimates and Schemes and Direct Labour Costing.

The appointments will be terminable by one month's notice in writing on either side and will be subject to the provisions of the Local Government Superannuation Acts and to the passing of a medical examination.

The Conditions of Service will be those of the National Joint Council for Local Authorities' Administrative, etc., Services.

Applications stating age, qualifications and experience, with the names of two referees must be received by the undersigned not later than 20th JUNE, 1959.

D. C. S. LANE,
Clerk of the Council.

County Hall,
Llandrindod Wells,
Radnorshire.

NATIONAL COAL BOARD.

NORTH-EASTERN DIVISION.

SENIOR HOUSING ASSISTANT Required in No. 8 (Castleford) Area. Experience (preferably in mining district) of management, administration and maintenance by direct and indirect labour of all types of house property and knowledge of Town and Country Planning, Rent Restriction and Housing Acts, the effects of mining subsidence and repair of consequential damage desirable. Recognised professional qualification essential. Salary 750 to £1,050.

Apply giving full details to Area Staff Manager, No. 8 Area, P.O. Box 13, Allerton Bywater, Castleford, Yorks, by 19th JUNE.

CARSHALTON U.D. COUNCIL

Require experienced CLERK OF WORKS primarily for civil engineering works (new sewers, private street works, etc.), with possibility of building works later. Salary £795 p.a. Applications giving age and full particulars of experience, previous employers, with dates, etc., to C. Needham, M.I.C.E., Stone Court, The Grove, Carshalton, Surrey, not later than JUNE 29, 1959.

C. H. DURRANT,
Clerk of the Council.

Council Offices,
The Grove,
Carshalton.

DERBYSHIRE COUNTY COUNCIL.

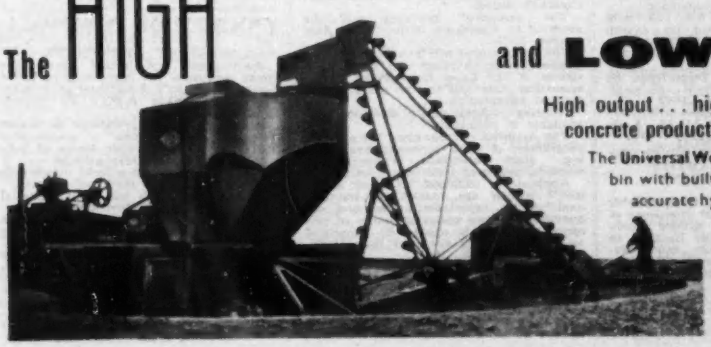
COUNTY ARCHITECT'S DEPARTMENT.

QUANTITY SURVEYOR required, A.P.T. grade V, salary £1,220 x £55(1) and £50(2) to £1,375 per annum. Applicants must be Associates of the Royal Institution of Chartered Surveyors, National Joint Council Conditions of Service. Pensionable posts. Canvassing disqualifies. Application forms from The County Architect, County Offices, Matlock.

The HIGH BETTER PROPORTIONED AND CHEAPER CONCRETE

BLAWKNOX

and LOW of concrete production



High output . . . high quality concrete . . . low capital cost . . . low cost concrete production.

The Universal Weighbatcher is completely self-contained, comprising aggregate bin with built-in loader, bulk cement storage and handling equipment, and accurate hydraulic weigher. Output up to 300 cubic yards per 10-hour day.

Write for publication 201

BLAW KNOX LTD

Box 113 90/94 Brompton Road, London, SW3

Telephone Kensington 5151

KENT COUNTY COUNCIL

Require, in connection with the Council's extensive building programme, QUANTITY SURVEYORS and ASSISTANTS with experience in the preparation of estimates, bills of quantities and final accounts for building projects. Salaries within scales £785-£1,070 or £610-£765 a year. Candidates for appointment to the higher scale should have passed the Final Examination of the Royal Institution of Chartered Surveyors (Quantity Surveying Section) and be familiar with recent developments in cost analysis and cost planning. Other candidates should have passed the Intermediate Examination of the Institution.

Further details and application forms from the County Architect, Springfield, Maidstone. Closing date 24th JUNE, 1959.

BOROUGH OF OLDBURY.

BOROUGH SURVEYOR'S DEPARTMENT.

ARCHITECTS' SECTION.

Applications are invited for the following appointments in the Architects' Section of the Borough Surveyor's Department:—

(a) ARCHITECTURAL ASSISTANT, A.P.T. Grade II (£765-£880 per annum).

(b) ARCHITECTURAL ASSISTANT, A.P.T. Grade I (£610-£765 per annum).

Candidates for appointment (a) should preferably have passed the Intermediate Examination of the R.I.B.A. and be capable of preparing working and detailed drawing and specification.

The appointment offers to a suitable applicant an excellent opportunity of being engaged on a wide range of architectural projects including housing, education and other works.

Appointment (b). The appointment offers, to a competent draughtsman, experienced in the preparation of working and detail drawings, an excellent opportunity of being engaged on a wide range of architectural projects.

Both appointments will be superannuable, subject to the National Scheme of Conditions of Service, and to the selected candidate passing a medical examination.

Applications, giving particulars of age, qualifications, experience, and the names of two referees, should be delivered to the undersigned not later than FRIDAY, 19th JUNE, 1959.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
Oldbury,
Nr. Birmingham.
June, 1959.

CITY OF PORTSMOUTH.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT, Special Grade (£785-£1,070), commencing salary according to experience.

(b) ASSISTANT ARCHITECT, A.P.T. Grade II (£765-£880), commencing salary according to experience.

(c) ARCHITECTURAL ASSISTANT, A.P.T. Grade I (£610-£765), commencing salary according to experience.

Applicants for (a) must be Associate Members of the R.I.B.A., and for (b) and (c) must have passed the Intermediate R.I.B.A. Examination, or its equivalent, at one of the recognised Schools of Architecture.

Applications, with full details and names of two referees, must be delivered to the City Architect, 1 Western-parade, Portsmouth, not later than WEDNESDAY, the 24th JUNE, 1959.

Canvassing will disqualify.

V. BLANCHARD,
Town Clerk.

COUNTY BOROUGH OF BIRKENHEAD.

BOROUGH ARCHITECT'S DEPARTMENT.

ASSISTANT ARCHITECT. Salary £880-£1,065 per annum (N.J.C. Scale). Applicants must be Associates of the R.I.B.A. or hold equivalent qualifications. Salary commensurate with qualifications and experience. Form of application and particulars from the Borough Architect's Department, 3 Conway-street Birkenhead. Closing date for applications, 22nd JUNE, 1959. Relationship to Members or Senior Officers of the Council must be disclosed.

COUNTY BOROUGH OF BURNLEY.

Applications are invited for the appointment of TEMPORARY CLERK OF WORKS in the Borough Engineer and Surveyor's Department at a salary in accordance with Grade VI of the scale applicable to the Miscellaneous Class of Officers (£715-£775 per annum).

Applicants should preferably have had experience in a similar capacity on building contracts and the appointment being a temporary one will be subject to a month's notice on either side.

Forms of application, etc., may be obtained from the Borough Engineer and Surveyor, 22-24 Nicholas-street, Burnley, to whom they should be returned not later than first post, WEDNESDAY, 24th JUNE, 1959.

BOROUGH OF DOVER.

CLERK OF WORKS.

Applications are invited for the above appointment. Salary within Grade IV of the Scheme of Conditions for Miscellaneous Classes of Officers (£590-£650 per annum).

Candidates, who must have wide experience in the building trade and be competent to undertake the supervision of housing contracts under the direction of the Borough Engineer, must also be capable of setting out work, measuring up, giving levels and able to keep accurate records.

Applications, stating age, qualifications, experience, present and previous appointments and salary, together with the names of two persons to whom reference may be made, must be delivered to the Borough Engineer, Brook House, Dover, not later than first post on MONDAY, the 6th JULY, 1959.

JAMES A. JOHNSON,
Town Clerk.

New Bridge House,
Dover.
8th June, 1959.

ISLE OF ELY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT, Special Grade (£785-£1,070).

(b) ARCHITECTURAL ASSISTANT, A.P.T. I (£610-£765), A.P.T. II (£765-£880), or Special Grade (£785-£1,070).

Applicants for post (a) should be A.R.I.B.A. or have completed Parts I and II of the R.I.B.A. Final Examination or have completed a course at a School of Architecture; initial salary dependent upon previous experience. Applications from students completing courses in July, 1959, will be considered. Scope of work offered will entirely depend on the efforts and ability of the successful candidate.

For post (b) the Grade offered will be according to qualifications, experience and ability. Applicants should have previous experience and preferably have passed the R.I.B.A. Intermediate Examination.

Both posts are subject to N.J.C. Conditions, Local Government Superannuation Acts and the passing of a medical examination.

Applications giving full details of education, qualifications, training and experience, and names of two referees, to reach the County Architect, County Hall, March, Cambs., not later than FRIDAY, 26th JUNE, 1959.

R. F. G. THURLOW,
Clerk of the County Council.

COUNTY BOROUGH OF EAST HAM EDUCATION COMMITTEE.

EAST HAM TECHNICAL COLLEGE.

Applications are invited for the following posts:—

ASSISTANT, Grade "B," for Building Construction and Allied Subjects for O.N.C. and H.N.C. courses in the Department of Building. Experience in the building industry and a professional qualification desirable.

Burnham Salary Scales: Assistant, Grade "B": £682 10s. by £26 5s. to £1,076 5s. Plus London Allowance of £37 16s. or £50 8s. and appropriate allowances for qualifications, training and previous experience.

Forms of application (returnable by 4th JULY, 1959) and further particulars from Chief Education Officer, Town Hall Annexe, Barking-road, East Ham, London, E.6.

COUNTY BOROUGH OF EAST HAM.

PRINCIPAL ASSISTANT PLANNING OFFICER (GRADE A.P.T. III, £880-£1,065).

Vacancy in Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

Subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date 26th JUNE, 1959.

BRAINTREE RURAL DISTRICT COUNCIL.

TEMPORARY QUANTITY SURVEYING ASSISTANT.

Applications are invited from suitable qualified persons with sound experience of housing schemes. N.J.C. Service conditions. Salary A.P.T. Grade II, £765 to £880 p.a. Write giving age, experience, qualifications and two referees, to me by JUNE 26, 1959. Canvassing disqualifies.

V. YOUNG,
Clerk of the Council.

St. Peter's Close,
Rocking,
Braintree, Essex.

COUNTY BOROUGH OF CARLISLE.

Applications are invited for the appointment of ASSISTANT ARCHITECT in the City Surveyor's Department at a salary in accordance with the A.P.T. Special Scale £750-£1,030 (revised scale awaiting approval by Council).

Starting salary according to qualifications and experience. Applicants should be A.R.I.B.A. This post is in a section normally carrying out General work, but at present Educational work is also being done.

The office is sectionalised, the architectural work being under the immediate control of the Deputy City Architect.

Forms of application from City Surveyor, 18 Fisher-street, Carlisle, returnable to him not later than 20th JUNE, '959.

H. D. A. ROBERTSON,
Town Clerk.

ARCHITECTURAL ASSISTANT

Required by HAYES & HARLINGTON U.D.C. Salary within Grade A.P.T. II, i.e., £765-£880 per annum, plus appropriate London "Weighting," 21-25 years £20 per annum, 26 years and over £30 per annum. Candidates must have had a good general architectural experience and preference will be given to applicants who have passed the R.I.B.A. Intermediate Examination. The Council is unable to assist with the provision of housing accommodation. Five-day week. Further particulars and conditions of service and form of application obtainable from the undersigned, which when completed must be returned by JUNE 29, 1959.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes, Middx.

LONDON COUNTY COUNCIL.

Vacancies for ENGINEERING ASSISTANTS (up to £860) and ENGINEERS, Grade III (up to £1,090) (scales at present under review) in:—

(a) STRUCTURAL ENGINEERING DIVISION—Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings; and

(b) DISTRICT SURVEYORS' SERVICE—In districts coinciding with one exception, with Metropolitan Borough Boundaries. Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress. Good prospects in both of these aspects of the Council's work.

Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/45/59, County Hall, S.E.1. (925.)

CITY OF SALFORD.

HOUSING DEPARTMENT.

PROPERTY AGENT—HOUSING ACT, 1954.

Applications are invited from craftsmen or persons with considerable experience in connection with repair and maintenance of house property. Will be required to collect rents in addition to inspection for repairs. Salary—Miscellaneous V, £650-£715 p.a. The appointment is superannuable and subject to the passing of a medical examination. Applications, stating age, qualifications, experience, present and previous appointments, together with the names and addresses of three persons to whom reference can be made, should be forwarded to the Housing Manager, 36 Eccles Old-road, Salford, 6, not later than SATURDAY, JUNE 20, 1959.

R. RIBBLESDALE THORNTON,
Town Clerk.

EBBW VALE URBAN DISTRICT COUNCIL.

ARCHITECT'S DEPARTMENT.

APPOINTMENT OF DEPUTY ARCHITECT.

Applications are invited from corporate Members of the R.I.B.A. for the appointment of DEPUTY ARCHITECT in the Department of the Architect to the Council at a salary within A.P.T. Grade IV (£1,065-£1,220) of the National Joint Council's Scales.

The successful applicant will be expected to commence duties on 1st September, 1959.

The appointment will be subject to three months' notice on either side, to the provisions of the Local Government Superannuation Acts and to the passing of a medical examination.

Housing accommodation may be made available if required.

The Architect's Department has a varied programme of work including new housing, slum clearance redevelopment schemes, proposed civic centre, etc.

Applications endorsed "Deputy Architect" stating age, education, training, qualifications, experience, present and past appointments and enclosing copies of two recent testimonials should be submitted to the undersigned not later than MONDAY, 22nd JUNE, 1959.

HOWARD J. WILLIAMS,
Clerk of the Council.

Council Offices,
The Walk,
Ebbw Vale, Mon.
28th May, 1959.

LONDON COUNTY COUNCIL.

PARKS DEPARTMENT.

BUILDING SURVEYING ASSISTANTS. Good draughtsmen with experience of preparation of working drawings and specifications and supervision of contract work. Up to £860 (under review). Apply to Chief Officer, Parks Department (A1/BS), County Hall, S.E.1. (WATerloo 5000, Ext. 8076.) (1147.)

LONDON COUNTY COUNCIL.

SURVEYING ASSISTANTS (up to £895) required for preparation of Specifications and Estimates and Supervision of works in connection with maintenance, alterations and minor improvements of voluntary schools. Application form from Hubert Bennett, F.R.I.B.A., Architect to Council (AR/EK/56/59), County Hall, S.E.1. (1230.)

BOROUGH OF SOLIHULL.

CIVIC CENTRE SCHEME.

The Council of the Borough of Solihull invite applications for the post of temporary CLERK OF WORKS to supervise the construction of a Civic Hall Block on a site in Church Hill-road, Solihull, as the first part of the Civic Centre Scheme.

The building is to be of brick, with stone dressings, on a steel frame with extensive reinforced concrete construction.

It is anticipated that the site work will commence shortly and the duration of the contract is approximately 18 months.

Salary will be at the rate of £18 to £20 per week according to experience and qualifications.

Applications in writing giving age, qualifications, and experience (including practical experience in any of the building trades) together with the names of two persons to whom reference can be made, should be sent to me not later than 17th JUNE, 1959.

W. MAURICE MELL,
Town Clerk.

Council House,
Solihull.

BOROUGH OF BARNES.

PUBLIC HEALTH DEPARTMENT.

APPOINTMENT OF TECHNICAL ASSISTANT (SMOKE CONTROL AREAS).

Applications are invited from persons interested in administration of Clean Air Act, 1956 and with appropriate technical qualifications and experience (e.g. Clerk of Works Certificate, H.N.C. Building, etc.). Person appointed will be engaged principally on implementation of Smoke Control Area programme. Further details on application. Salary £765/£880 plus London Weighting £30. Superannuation scheme. Council cannot assist with housing accommodation.

Applications, with the names and addresses of two persons to whom reference can be made, should be sent to the Medical Officer of Health, Municipal Offices, East Sheen, S.W.14, by 20th JUNE, 1959. Canvassing disqualifies. Applicants must state whether they are related to any member of the Council. Usual conditions apply.

NORTHERN POLYTECHNIC, HOLLOWAY, LONDON, N.7.

The Governing Body invite immediate applications for appointment to the Department of Architecture, Surveying and building as LECTURER ON ADVANCED CONSTRUCTION, THEORY OF STRUCTURES AND BUILDING REGULATIONS. Salary scale £1,260 x £31 10s. x £1,417 10s. together with allowances in accordance with the Burnham Award.

Applicants are expected to have an appropriate professional qualification and to have had at least three years' practical experience. Some teaching experience is desirable.

Apply for form of application and further particulars to the Clerk to the Governors.

COUNTY OF CORNWALL.

ASSISTANT ARCHITECTS.

Applications are invited from keen young Architects for two vacancies in the County Architect's department at a salary within the Grade A.P.T. IV £1,065-£1,220.

Applicants should preferably be school trained and be capable of undertaking major works with a high degree of individual freedom and responsibility.

The department has a large programme of schools and other municipal projects.

The appointment is subject to the usual conditions of Local Government Service. Applications, accompanied by the names of two persons to whom reference can be made, should reach Mr. F. K. Hicklin, A.R.I.B.A., County Architect, County Hall, Truro, not later than MONDAY, 22nd JUNE, 1959.

E. T. VERGER,
Clerk of the County Council.

County Hall,
Truro.
1st June, 1959.

COUNTY BOROUGH OF SUNDERLAND.

SENIOR QUANTITY SURVEYING ASSISTANT—A.P.T. II. (Maximum £880 per annum).

Applications are invited for the above post. Particulars of the appointment may be obtained from the Borough Architect, Grange House, Stockton-road, Sunderland. Applications must be addressed to me and received at my office, Town Hall, not later than 6th JULY, 1959.

Canvassing will disqualify.

G. S. McINTIRE,
Town Clerk.

CITY AND COUNTY OF KINGSTON UPON HULL.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for ASSISTANT ARCHITECTS, Grade S.C.O. (£785-£1,070). There is an interesting and varied programme of work in the department. Housing accommodation may be provided for the successful married applicants if they are not already resident in the city. The point of entry to the scale will be determined by experience.

Application forms may be obtained from Andrew Rankine, O.B.E., A.R.I.B.A., City Architect, Guildhall, Kingston upon Hull, and should be returned completed on or before MONDAY, 22nd JUNE, 1959.

NEWCASTLE REGIONAL HOSPITAL BOARD.

REGIONAL ARCHITECT'S DEPARTMENT.

During the next two years the Board plans to spend several millions on hospital developments and larger programmes are being planned to follow. The present building programme includes a wide variety of projects, ranging from houses to hospitals, and (since a large hospital resembles a small town) affords ample opportunity for gaining both general and hospital experience simultaneously.

The following posts in the Regional Architect's Department are at present open to applicants. The salary-scales quoted include interim increases pending completion of a current Health Service review of salaries.

(i) ASSISTANT ARCHITECTS (4). Salary £730 x £25(2) x £30(2) x £35(3) x £40(1)-£1,055.

Applicants should be registered architects and have had experience of the planning and construction of public buildings. The commencing salary will be fixed within the Grade by reference to relevant experience and to age.

(ii) ARCHITECTURAL ASSISTANT. Salary £545 at age 21 x £20(3) x £25(4) x £30(2) to £765.

Applicants should have passed the Intermediate Examination of the R.I.B.A., or an examination recognised by the Institute as equivalent, and some practical experience is desirable.

The commencing salary within the grade will depend upon the applicant's age and practical experience, but will not exceed £605.

(iii) ARCHITECTURAL DRAUGHTSMAN. Salary £445 x £25(5) x £30(3)-£660.

Applicants should have had previous experience in an architect's drawing office and be neat and quick draughtsmen.

Evening study facilities are available at King's College of Durham University in Newcastle.

Applications, stating age, qualifications, past and present appointments, present salary and details of experience and training, together with the names of three referees (of whom at least two should be architects) should be forwarded to the Secretary to the Board, Benfield-road, Newcastle-upon-Tyne, 6, not later than 18th JUNE, 1959.

BOROUGH OF BATLEY.

ARCHITECT.

Applications are invited for the appointment of an ARCHITECT in the Borough Engineer and Surveyor's Department at a salary in accordance with the grade for Special Classes of Officers (£785, rising by annual increments of £40 to £1,070).

Preference will be given to candidates who are Registered Architects and Associate Members of the Royal Institute of British Architects.

Forms of Application may be obtained from the Borough Engineer, West House, Hanover-street, Batley, to whom the same should be returned in a sealed envelope, endorsed "Architect," not later than first post on SATURDAY, 27th JUNE, 1959.

L. O. BOTTOMLEY,
Town Clerk.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancy for ARCHITECTURAL AND TOPOGRAPHICAL MODEL MAKER (up to £895 per annum). Previous experience essential and applicant should be able to work from architect's plans and elevations on wood, card, metal and perspex.

Application form returnable by 23rd JUNE, 1959, from Architect (AR/EK/58/59), The County Hall, S.E.1. (1267.)

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

CITY ESTATE AND PROPERTY SURVEYOR'S DEPARTMENT.

Applications are invited for the undermentioned appointments on the permanent staff:—

ESTATES AND ACQUISITION SECTION:

Two VALUATION ASSISTANTS, Salary Special Scale £750-£1,030 (subject to review).

The appropriate qualifications for the appointments is Final Examination of the Royal Institution of Chartered Surveyors (Valuation Section) and applicants should have good experience of the management of large estates and the acquisition of central area properties.

SURVEYING SECTION:

One SURVEYING ASSISTANT, Salary Special Scale £750-£1,030 (subject to review).

The appropriate qualification for the appointment is Final Examination of the Royal Institution of Chartered Surveyors (Building Surveying Section) and applicants should have practical experience in estimating and the preparation of Specifications, Bills of Quantities and the measuring up and supervision of work in connection with the maintenance of all types of Public Buildings.

The posts are subject to the Local Government Superannuation Acts, and the successful candidates will be required to pass a medical examination.

Applications suitably endorsed, stating age, qualifications and previous experience together with the names of two referees, should be forwarded to Winston Hand, Esq., F.R.I.C.S., City Estate and Property Surveyor, Town Hall, Newcastle upon Tyne, 1, not later than 27th JUNE, 1959.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
2nd June, 1959.

COUNTY BOROUGH OF BURTON UPON TRENT EDUCATION COMMITTEE.

TECHNICAL COLLEGE.
Principal: E. White, M.Sc.(Econ.).

Applications are invited for the post of Grade "A" Assistant to teach Carpentry and Joinery. Salary in accordance with the Burnham Technical Scale. Forms of Application, which may be obtained from the undersigned upon receipt of a stamped, addressed foolscap envelope, must be returned as soon as possible.

A. H. BLAKE,
Director of Education.

Education Office,
Guild-street,
Burton upon Trent.

BOROUGH OF NELSON.

WORKS MANAGER.

Applications are invited for the appointment of a WORKS MANAGER in the Department of the Borough Engineer and Surveyor. Salary in accordance with A.P.T. Grade III (£880-£1,065 p.a.). Commencing salary according to experience and qualifications.

Applicants must have had considerable experience in the Building Trade and be capable of taking charge of a direct labour building organisation dealing with the maintenance and construction of Corporation properties, including houses and public buildings.

Preference will be given to an applicant with previous experience of Local Authority work and membership of the Institute of Municipal Works Managers, or some other approved body, would be an advantage.

The appointment will be subject to the National Scheme of Conditions of Service and consideration will be given to the provision of housing accommodation.

Applications (endorsed "Works Manager") giving details of age, qualifications experience and present salary, with the names and addresses of two referees, to be sent to the undersigned, not later than the first post, SATURDAY, the 27th JUNE, 1959.

F. W. ROBERTS,
Town Clerk.

Town Hall,
Nelson.
2nd June, 1959.

COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following temporary appointments:—

SENIOR ASSISTANT ARCHITECT, Grade IV, £1,065-£1,220.

ARCHITECTURAL ASSISTANT, Grade II, £765-£880.

London Weighting is paid in addition, and salaries in excess of the minima may be paid according to qualifications and experience. The appointments are for work on a new Technical College and are expected to be for a period of not less than 3 years.

Further details and application forms returnable by 26th JUNE, 1959, from the Town Clerk, Town Hall, East Ham, E.6.

COUNTY BOROUGH OF BLACKPOOL.

Applications (by TUESDAY, 30th JUNE, 1959) invited for SENIOR ASSISTANT ENGINEER, A.P.T. V—£1,220/£1,375) in the Borough Surveyor's Department. Particulars from Borough Surveyor (Arthur Hamilton, B.Sc.), P.O. Box 17, Municipal Buildings, Blackpool.

COUNTY BOROUGH OF ROCHDALE.

Applications are invited for the post of QUANTITY SURVEYOR on Special Classes Scale (£750-£1,030 p.a.).

The successful applicant, if fully qualified, will be offered housing accommodation.

Applications, including names of two referees, to the Borough Surveyor, Town Hall, Rochdale, by JULY 1, 1959.

Canvassing or non-disclosure of relationship to any member or senior official of the Council will disqualify. Appointment subject to medical examination.

K. B. MOORE,
Town Clerk.

CARMARTHENSHIRE COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified and experienced persons for appointment as ARCHITECTURAL ASSISTANT (A.P.T. I). Appointment superannuable and subject to medical examination.

Applications giving details of age, qualifications and experience with copies of three recent testimonials to County Architect, County Hall, Carmarthen, not later than SATURDAY, 20th JUNE, 1959.

W. S. THOMAS,
Clerk of the County Council.

County Hall,
Carmarthen.
June, 1959.

COUNTY BOROUGH OF BOLTON—HOUSING DEPARTMENT.

Applications invited for appointment of SITES SURVEYOR, Salary A.P.T. II (£765-£880). Applicants should be capable of measuring on site, preparing interim valuations, etc. Post superannuable subject to medical examination. Applications stating age, qualifications, details of experience, and naming two referees to reach me by 26th JUNE,

PHILIP S. RENNISON,
Town Clerk.

Town Hall,
Bolton.

ASSISTANT SUPERINTENDENT

Required at Northern Outfall Works, Beckton, E.6, to supervise direct labour staff on works maintenance (building and civil engineering) and staff engaged on routine operation of sewage treatment plant. £1,000 to £1,270. Successful candidate will not on appointment but may subsequently be required to reside in house provided by Council.

Application form from Chief Engineer (59/35), L.C.C., County Hall, S.E.1. (11.42.)

SCUNTHORPE BOROUGH COUNCIL

invite applications from suitably qualified persons for a vacancy in the Surveyor's Department for an ASSISTANT ARCHITECT, Special Grade (£785-£1,070 p.a.). Housing accommodation is available, and applications giving experience and qualifications together with the names of two referees should be submitted to the Town Clerk, 34 High-street, Scunthorpe, not later than 22nd JUNE, 1959.

ASSISTANT MAINTENANCE SURVEYOR

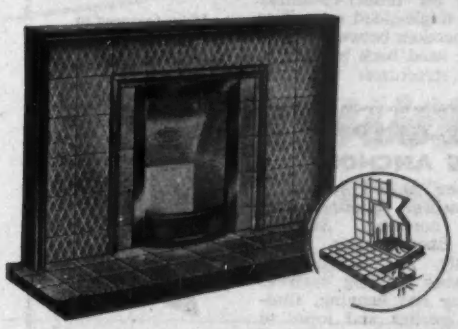
required by Poplar Borough Council. Permanent post. Salary A.P.T. I (£610-£765, plus "weighting"). Commencing salary according to qualifications and experience. Application forms from the Borough Engineer and Surveyor, Poplar Town Hall, Bow-road, E.3. Closing date 29th JUNE, 1959.

OVERSEAS PUBLIC APPOINTMENTS

TECHNICAL INSTRUCTORS (BUILDING SUPERVISOR)

Required by KENYA EDUCATION DEPT. on contract for one tour of 36-45 months in the first instance. Salary according to age and experience in scale (including Inducement Pay) £813 rising to £1,341 a year. Gratuity 13½ per cent of total substantive salary drawn. Outfit allowance £40. Free passages. Liberal leave on full salary. Candidates, 25-35 years must have served full apprenticeship to a recognised building trade and have had experience as site foreman or clerk of works. Possession of C. and G. Final Cert. or its equivalent an advantage. Write to the Crown Agents, 4 Millbank, London, S.W.1 state age, name in block letters, full qualifications and experience and quote M2B/50217/BH.

WELL FIRES



—the name of Quality

It is on sheer merit that Well Fires have held their supreme position for fifty years—on their fineness of design and perfection of construction. Their unique air channels below the hearth ensure economy of fuel consumption. Surrounds of distinctive design—modern or period—in Marble Natural Quarried Stone, Old English Red Briquettes, best English Eggshell Tiles and Faience, with or without Wood Mantels. If preferred—the famous "PYRAMID" raised type fire is available, or any other make or type of fire desired.

Housing Schemes are catered for.

WELL FIRES
BOWES' GENUINE ORIGINAL

CATALOGUE sent post free on request.

THE WELL FIRE & FOUNDRY CO. LTD.
Royal Victor Place, Old Ford Road, London, E.3. Tel.: ADVance 2642

Timber Connectors

'TECO' Double-Bevelled Wedge Fit SPLIT RINGS

Manufactured to B.S.S. 1579: 1953, Table 1. (Pat. No. 593945)

The improved Split-ring with double bevelled inside and outside faces, makes it easy to insert in pre-cut wedge shaped grooves without damage to timber and avoids the use of a ring spreader or excessive hammering. Available in 2½" and 4" internal diameters. Special grooving tools also available. Suitable for all types of timber in light, medium and heavy structures.

'TECO' Heavy-Duty SHEAR PLATES

Manufactured to B.S.S. 1579: 1953, Table 2.

Inserted in pre-cut daps made by special dapping tools which are available for the purpose. 'TECO' 2⅝" diameter SHEAR PLATES provide heavy shear load capacity for use in large structures for connections between timber and steel, timber and concrete, or used back to back in demountable structures.

'BULLDOG' Round Toothed-Plate CONNECTORS

Available in five diameters—self-embedding—for light and medium structures. Made in two types—double-sided for timber-to-timber connections, single-sided as a shear plate for connections between timber and steel, or used back to back in demountable structures.

Manufactured to B.S.S. 1579: 1953, Table 3.

'TRIP-L-GRIP' FRAMING ANCHORS

For stronger nailed joints in timber framing. Eliminate toe-nailing and notching. Simplify fabrication. Easy to place. Fixed by nailing only. For many applications in timber framing such as joist trimming and hanging, studding, fixing purlins and joists to trusses and laminated beams, ceiling grounds, etc. For use with 2" by 2" and larger timbers.

(*Pat. No.* 682101)

The above products are backed by over 20 years' specialist experience. Full technical data is contained in our "DESIGN MANUAL FOR TIMBER CONNECTOR CONSTRUCTION" obtainable FREE on application. TYPICAL ROOF TRUSS DESIGN SHEETS and expert consultant service.

AVAILABLE FROM:

MACANDREWS & FORBES LIMITED
2 CAXTON STREET · LONDON · S.W.1
TEL: ABBEY 4451-3

Permanent sealing and dustproofing

for old or new Concrete Floors

You give your customers excellent advice when you recommend Watco treatment because its sealing, dustproofing and toughening effect is complete and permanent, and because it is non-chemical. Application is simple, and when the work is done you are satisfied with a good job and your customer is permanently satisfied with a permanent job.

There is Watco treatment not only for concrete but for Terrazzo, unglazed tiles, and wood floors, and we invite you to apply for the

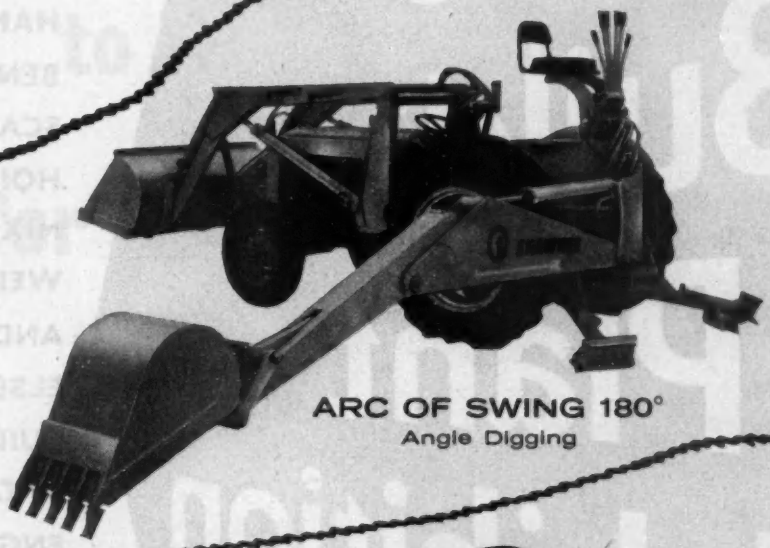
WATCO FREE BOOKLET

which gives full information about Watco Concrete Hardener—its coverage, prices, and method of application—and details of all other Watco products.

WATCO (SALES) LTD. (Dept. E25)
Floor Treatment Specialists
56 BUCKINGHAM GATE, LONDON, S.W.1
Phone: VICtoria 0623

WATCO
Regd. Trade Mark

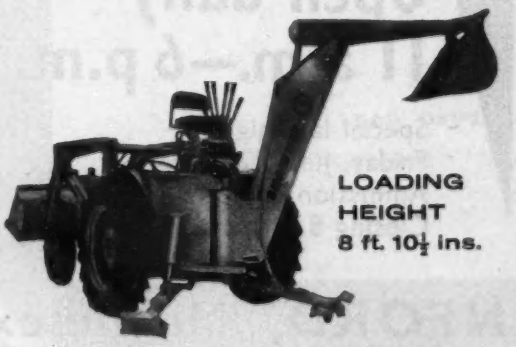
GREATER POWER at less cost



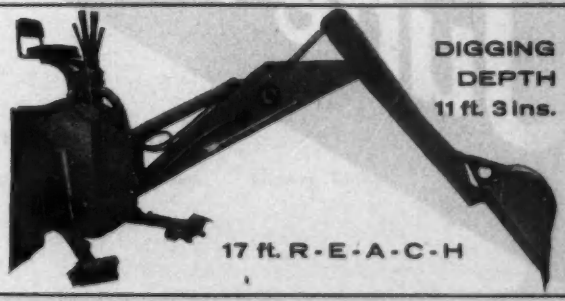
ARC OF SWING 180°
Angle Digging

With the Shawnee "Warrior" Digger you get powerful digging action to a depth of 11 ft. 3 ins.... 180° angle digging... high loading to 8 ft. 10½ ins.... and a long 17 ft. reach. All working parts are bushed to reduce wear.
It is a versatile, speedy, easy-to-operate and a more economical machine—it is a machine with the highest power-to-weight ratio built today and Contractors will be well advised to write for fuller details. Illustrated literature is available on request... and don't forget, greater power means a faster job.

Shawnee 'WARRIOR' DIGGER



LOADING HEIGHT 8 ft. 10½ ins.



DIGGING DEPTH 11 ft. 3 ins.

17 ft. R-E-A-C-H

STEEL FABRICATORS (CARDIFF) LTD., ROATH, CARDIFF. Telephone: 44436
Export enquiries to: STEEL FABRICATORS (OVERSEAS) LTD., 1 BAKER ST., LONDON W.1
Telephone: WELbeck 0751/2 Telegrams: Steeloader, Wesdo, London

See them in action

1959 Building Plant Exhibition

June 10th–17th

TRENCHERS
GRADERS
EXCAVATORS
CRANES
HAND TOOLS
BENCH TOOLS
SCAFFOLDING
HOISTS
MIXERS
WEIGH-BATCHERS
AND EVERYTHING
ELSE FOR THE
BUILDING
AND CIVIL
ENGINEERING
INDUSTRIES
LARGE AND
SMALL

Open daily
11 a.m.—6 p.m.

Special late night
Friday, June 12th
Admission to 8 p.m.
Closing 8.30 p.m.

Greenford Road, **GREENFORD,** Middlesex

Organised by the Ministry of Works

There is nothing to equal LEAD for roof coverings

h

THE LEAD SHEET AND PIPE TECHNICAL INFORMATION BUREAU

advises on the use of Lead in building work. Most of the many uses are detailed in the Association's publications, and in addition the Bureau's technical officers are always glad to give individual assistance.

LEAD DEVELOPMENT ASSOCIATION

18, ADAM STREET, LONDON, W.C.2. *Telegrams:* Leadevep, Rand, London. *Telephone:* WHItehall 4175

84p

LATEX and PLASTIC FOAM CUSHIONING for LONG LENGTH SEATING

as used in

- HOTELS, BARS & CLUBS
- MUNICIPAL BUILDINGS
- RECEPTION & WAITING ROOMS
- SCHOOLS & LECTURE HALLS
- WINDOW BAYS & ALCOVES
- EXHIBITION STANDS

Dunlopillo cushions and backrests supplied to any specification, uncovered or covered and ready for installation on site.

Send for illustrated list.

LATEX UPHOLSTERY LTD.
THE LEADING SPECIALISTS
41, LONSDALE ROAD, LONDON, W.11
Telephone BAYSWATER 6262-5

Rol-over-dor

the strongest and most easily operated garage door

PRICES FROM **£17.0.0** EX WORKS

PROMPT DELIVERY

The Rol-over-dor is made stronger to last longer. 24 gauge hot galvanised interlocking steel slats form a continuous full width joint giving great strength and rigidity. The unique design operated by counter-balanced springs gives finger-tip control.
No weights! No pulleys!
The Rol-over-dor is supplied complete with all the necessary operating gear and is made in two sizes:—6 ft. 6 in. wide x 7 ft. high and 8 ft. wide x 7 ft. high.

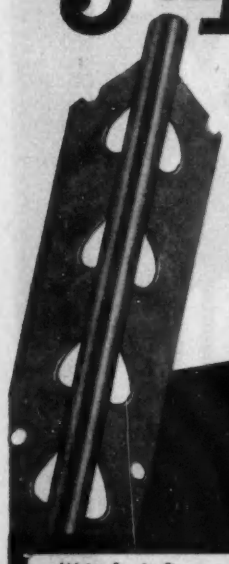
For fully descriptive literature including fixing instructions write or telephone:

Gnome House
Blackhorse Lane
London, E.17
Tel: LARkswood 2622
or Haskins factory at
Brook Street
Basingstoke
Telephone 1070

made by Haskins

MAKERS OF THE WORLD FAMOUS ROLADOR SHUTTERS

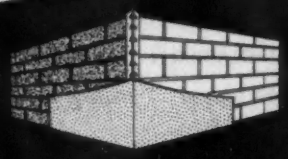
Jupiter



metal angle bead protects plaster corners

More and more architects now rely on JUPITER Metal Angle Bead to protect window reveals, lintels and chimney breasts.

Easy to fix, it simply keys in with the rendercoat; there's no shrinkage; and it gives permanent protection against unsightly, chipped plaster corners.

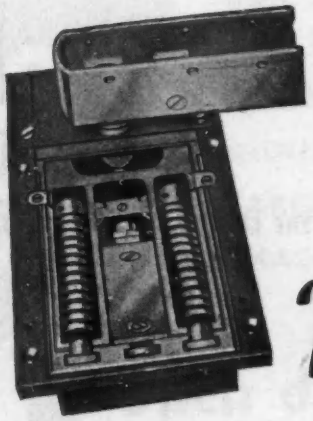


Write for leaflet to:

BLAGG & JOHNSON LIMITED
NEWARK, NOTTINGHAMSHIRE
Tel · Newark 95

DOORS NEED NOT *S-L-A-M*

—specify



"Victor" DOOR SPRINGS

ALSO

- WINDOW GEARING AND FANLIGHT OPENERS
- 'X-IT' PANIC BOLTS
- LOCKS
- DOOR FURNITURE
- CASEMENT FITTINGS
- SPRING SASH BALANCES

"VICTOR" fittings are specified by all leading Architects.

An essential fitting with self-contained check for Public Buildings, Housing Schemes, Office Blocks, etc. In shallow and watertight floor patterns. Overhead types to suit every purpose.

ROBERT ADAMS (VICTOR) LTD
139 STAINES ROAD, HOUNSLOW, MIDDX.
Telephone: Hounslow 5714

A brush-on waterproofing that contains **rubber...**

TO PREVENT OR CURE DAMP WALLS

Synthaprufe makes a highly efficient vertical damp course both inside and out, and is an excellent treatment when damp is already present.

TO WATERPROOF CONCRETE SUB-FLOORS

Synthaprufe is the ideal sandwich layer in concrete sub-floors. It is also the ideal fixative for linoleum and wood-blocks.

ELASTIC, ADHESIVE, IT MAKES AN IDEAL JOINTING

SYNTHAPRUFE is an all-purpose waterproofing compound applied cold by brushing. Its rubber content makes it strongly adhesive, and it sets quickly to form a strong, elastic, moisture-proof film.

Almost any surface, whether it be wood, brick, metal, concrete or plastic, will take Synthaprufe. It is an excellent key for plaster on difficult surfaces such as painted and glazed bricks. The use of Synthaprufe obviates the noise and expense of hacking.

When used as a sandwich in concrete sub-floors Synthaprufe acts as a horizontal damp course, effectively preventing moisture penetration.

Synthaprufe, a by-product of British coal, is obtainable in drums and cans.

Synthaprufe*

"Synthaprufe" is a Registered Trade Mark

MANUFACTURED BY THE **National Coal Board**

BY-PRODUCTS, NATIONAL PROVINCIAL BANK BUILDINGS, DOCKS, CARDIFF

Fungi-chek ★ by the DENTOLITE PROCESS

PERMANENT, NON-POISONOUS-HARMLESS, FUNGICIDAL AND BACTERICIDAL PAINTS

AN ANNOUNCEMENT OF VITAL IMPORTANCE TO EVERY READER OF "THE BUILDER"

Now you can fulfil two objectives when decorating. Readers of this publication are probably familiar with the problems of fungi and mould growth on walls, ceilings and other painted surfaces. We know that in some trades it has become the accepted practice to decorate continually and clean in an attempt to control this serious menace.

PROOF!
Photograph of a ceiling partly painted with Fungi-Chek. Test shows heavy mould growth, but the Fungi-Chek is completely free of growth.

Fungi-Chek (Gloss, Matt and Emulsion) Paints serve two purposes;

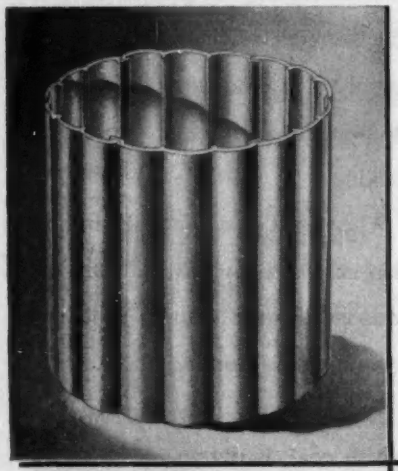
1
They provide a decorative finish par excellence, with first class durability and resistance to steam, abrasion, acids and alkalis, etc.

2
They are made continuously fungicidal and bactericidal, throughout the entire life of the paint film, by the Dentolite Process, and inhibit the growth of Mould, Fungi, Wild Yeasts and Bacteria—pathogenic or otherwise. (Tests after 5 years show the materials to be still thoroughly effective). Fungi-Chek is entirely free from any toxic compounds or lead, arsenic, copper, mercury, tin or any harmful or poisonous chemicals, i.e. Fungi-Chek is non-poisonous and harmless.

A Technical Advisory Panel is at your service and Scientific Literature and Samples are available on request

DENTON'S PAINTS SINCE 1788

DENTON EDWARDS PAINTS LTD, Abbey Road, Barking, Essex
Tel: Rippleway 3871 (10 lines)



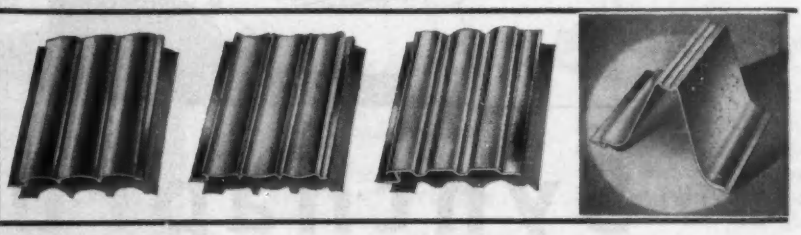
Aluminium Facings

The JAXITE range of interlocking extruded aluminium facings is now available in gold, black and silver anodised finish and in a great variety of stove enamelled colours.

These attractive extrusions are stocked in 16′ 0″ lengths. The standard width is 6″. Supplementary corner sections and trims complete the range.

Prices range from 3s. 1¼d. per foot run in plain finish. Data sheets and full price lists are available on request.

'Jaxite' REGD



Head Office: Kangley Bridge Road Lower Sydenham S.E.26 Tel. SYD 7061-3

AJAX ARCHITECTURAL PRODUCTS LIMITED

WITH KONTITE

Whether it's a house or a hospital, a block of flats or a complete housing estate, use Kay's KONTITE pipe fittings and be sure of first class plumbing.

KONTITE fittings make perfect joints at the turn of a spanner – save time, labour, and costs. There are 22,000 different KONTITE fittings, precision-engineered in gunmetal to resist corrosion and dezincification.

As a special service, Kay's also provide a complete Plumbing Layout Advisory Service.

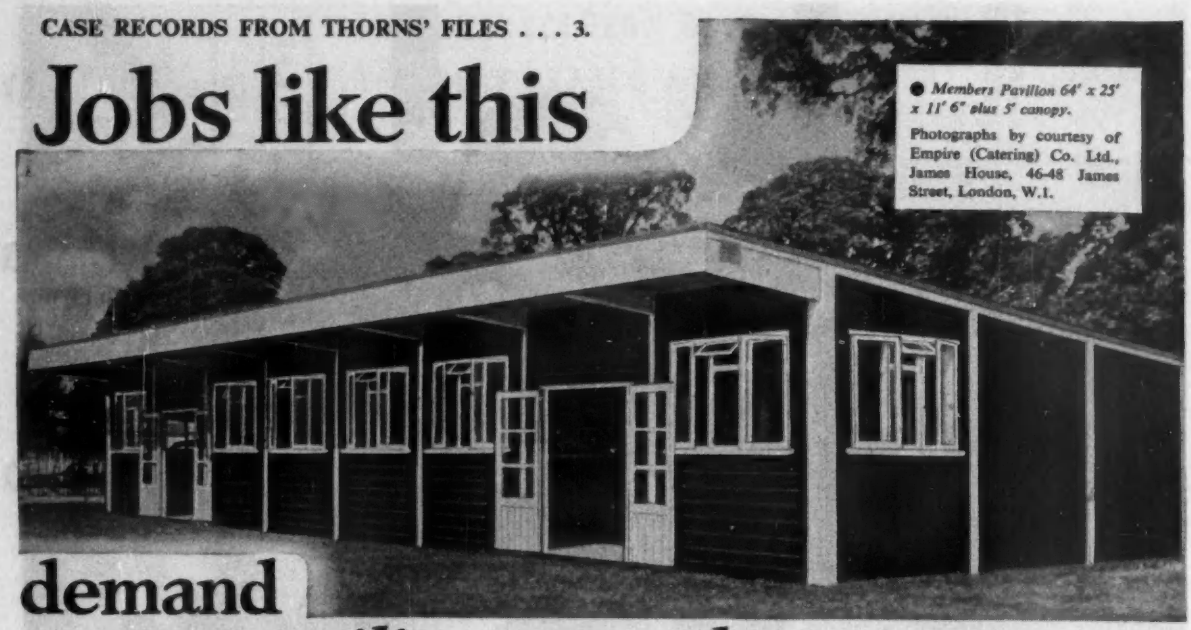
KAY & CO (ENGINEERS) LTD · BOLTON · LANCS TELEPHONE: BOLTON 3041

LONDON OFFICE: 36 VICTORIA STREET · SW1 · TELEPHONE: ABBEY 2144

A member of the ALENCO *Group of Companies*

CASE RECORDS FROM THORNS' FILES . . . 3.

Jobs like this



● *Members Pavilion 64' x 25' x 11' 6" plus 5' canopy.*

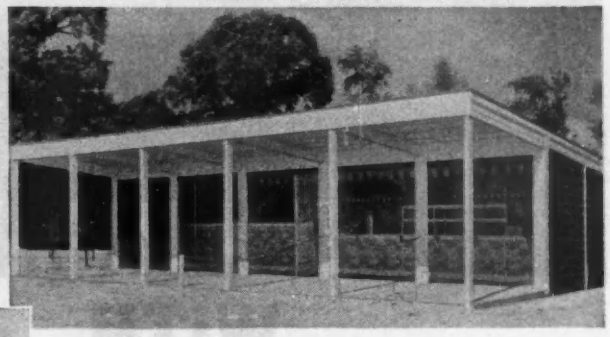
Photographs by courtesy of Empire (Catering) Co. Ltd., James House, 46-48 James Street, London, W.1.

demand

versatility... speed... economy...

SPECIFICATION

3 Timber buildings, of mono pitch design, with canopies along fronts. Weatherboarded walls; boarded roofs, covered with green mineralized roofing felt. Full-length partition and counter in each building. Walls and roofs lined with fibreboard. Roller shutter doors for two buildings. Delivered and erected on prepared bases and decorated in selected colours.



● *Grand Stand Pavilion 40' x 15' x 9' 6" x 8' plus 10' canopy.*

●*Public Pit Pavilion 64' x 11' x 8' x 7' plus 5' canopy.*

PAVILIONS AT GOODWOOD MOTOR RACING TRACK

Having received an outline of what was required, Thorns designed three special buildings, as illustrated here. These were approved, and the order was placed on March 3rd. The essential thing was to get at least two of them in use for the Easter meeting on April 7th. This left little time for producing two completely non-standard buildings, erecting and decorating them, but Thorns rose to the occasion and they were both in use at the Easter meeting. The third one was completed in time for Whitsun. Generally speaking, it is quicker and more economical to use one of Thorns standard systems of construction, but Thorns are equally capable of designing and producing buildings to a customer's special requirement.

THORNS

THORNS also have three standard systems of prefabrication, capable of meeting almost all requirements.

THORNS are prepared to supply only, supply and erect, or carry out the complete works.

Catalogue of designs and prices on request.

Ask THORNS to quote for your own job.

J. THORN & SONS, LTD. (Dept. 166), BRAMPTON ROAD, BEXLEYHEATH, KENT.

BD/36

Introducing space-saver doors

OPEN OR SHUT THEY OCCUPY

NO ROOM SPACE

Vertically pleated vinyl folding doors, initially available in a range of 4 qualities with a choice of 5 colours. Suitable for any type of building from the inexpensive to the luxurious, there are no installation problems. The colour range of grey, beige, red, green, brown, provides doors appropriate to virtually any colour scheme. Space-Saver doors are designed to fill openings of 6ft. 6in., 6ft. 8in. and 8ft. 0in. high and from 2ft. 3in. to 8ft. 0in. widths—in single units. All doors can be paired and can be used to enclose widths up to 16ft. 0in.

A NEW DEVELOPMENT BY **MARLEY**

Full details from
MARLEY·SEVENOAKS·KENT·Sevenoaks 55255 London Showrooms: 251 Tottenham Court Rd., W.1

THE STANDARD RANGE:

REGAL

The Regal is the most luxurious door in the Space-Saver range. Ease of opening, closing and neat folding is assured by the fully pantographic action, along with the smooth running glide-wheels on their precision-machined track. The heat sealed vinyl pockets contain solid core panels to reduce sound transmission. 'Tear drop' handles with security latch ensure simple locking action. Vinyl bumper strip on the leading edge protects woodwork and eliminates 'slam' noise. Valance boards, covered in matching vinyl enhance the up-to-the-minute design.

PRINCESS

The Princess matches the quality of the Regal door, but does not include the pantographic action.
A nylon glide, mounted on the top of each rigid hardboard core panel and sliding in a vinyl coated steel track, produces a silent, easy movement.
'Tear drop' handles with a security latch, two valance boards and the vinyl bumper strip are also features of the Princess door.

WALLDOOR

The pre-pleated vinyl pockets of the Walldoor contain solid Insulcore struts to ensure rigidity, and to give trim and permanent fold lines.
Nylon runners glide easily in a steel track. A vinyl bumper strip on the leading edge of the door prevents marking and ensures noiseless closing. The door is fitted with moulded high-impact plastic handles and security latch.
A matching valance board adds to its appearance.

ACCORDION

Made from single ply, pre-pleated everlasting vinyl, concealed steel weights at the bottom add to the rigidity and even folding. Maintenance free overhead track and nylon glides ensure silent, easy movement. The opening edge has a concealed metal reinforcement. It incorporates Walldoor handles and security latch.

"ATTIMORE"

ROOFING FELT
DAMP COURSE
EXPANSION JOINTING
BITUMEN PAINTS, CEMENTS & COMPOUNDS
"GLASFLEX" GLASS BASE ROOFING FELT & DAMPCOURSE
Stable · Rotproof · Waterproof and Non-Hygroscopic

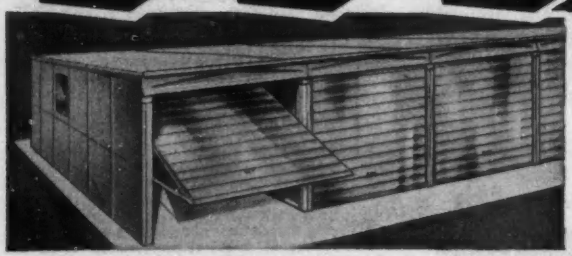
Remember "Attimore" when placing your next order or enquiry for Roofing Felt, Dampcourse, Expansion Jointing, Bitumen Paints, Cements and Compounds. Their widespread and consistent use on an ever-expanding market is convincing proof of the satisfaction given by "Attimore" Products.

Manufactured by
FELTS & DAMP COURSES LTD.
ATTIMORE HALL · WELWYN GARDEN CITY · HERTS
Telephones: Welwyn Garden 3176 & 285. LONDON OFFICE: TERminus 5342 (5 lines)

THE JIFFY SECRET WEDGE NAIL FOR WALLBOARD
NO MORE UGLY NAIL HEADS OR HAMMER MARKS
Inserted with a tool holding a pack of 50 nails at one loading.
Also, the maker of the JIFFY wallboard bevelling and grooving tools.
Sold and manufactured by the Patentee
E. CHALMER, 9, THE CRESCENT, SURBITON, SURREY
Trade enquiries invited. ELMbridge 3593

HOWARD & Co.
BUILDING CONTRACTORS
Established 1837
BROAD COURT, BOW STREET, W.C.2 TEMPLE BAR 3927/8, 5255

one two or more BATLEY CONCRETE LOCK-UP GARAGES



With the present-day high cost of building materials and labour, BATLEY Multiple Concrete Garages offer tremendous economies. Employing the well-known Batley principle of tongued and grooved concrete units which are simply bolted together on a firm level foundation, these garages can be erected by unskilled labour in hours instead of days. Fitted with 'Up and Over' or hinged doors as required.

also available with Wooden Roller Shutter Doors

- ANY NUMBER CAN BE ERECTED IN ONE BLOCK
- PURCHASED BY OVER 300 LOCAL AUTHORITIES
- ERECTION SERVICE AVAILABLE
- 3 YEARS' GUARANTEE
- FREE ADVISORY SERVICE
- ATTRACTIVE DEFERRED TERMS
- FREE DELIVERY IN ENGLAND AND WALES

Write for illustrated brochure to: ERNEST BATLEY LIMITED *66 Colledge Road, Holbrooks, Coventry. Telephone: 89245/6*
Manchester Office: 66 New Islington, Manchester, 4. Collyhurst 2887. London Office: 123 Shepperton Road, N.1. Canonbury 8793

Selector Gear—ensures correct closing sequence of door leaves when released by fusible link.

FUSIBLE LINK

Braking Device—holding door leaves at any desired position prior to fusible link coming into operation.

Enclosed helical hinges with oil bath—eliminate springs or quadrant tracks and wheels.

The three advantages featured above represent outstanding developments in Self-closing Steel Door construction. In addition, the whole assembly is within the area of the door frame thus involving less builder's work, whilst the simplicity and efficiency of design reduce initial cost.

(*Patent Application No.* 4235/57.)

HAYWARDS

FIREPROOF STEEL DOORS TO L.C.C. REQUIREMENTS

HAYWARDS LTD · UNION STREET · LONDON, S.E.1 *WATerloo 6035 (Private Branch Exchange)*

BRANCHES: BIRMINGHAM · BRISTOL · CARDIFF · JERSEY · DUBLIN · LEEDS
MANCHESTER · NEWCASTLE-ON-TYNE

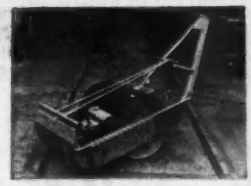
Specialists in high class Standard Joinery

MELTON
MIDWOOD
MOWBRAY

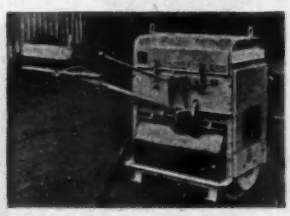
THE MIDLAND WOODWORKING CO LTD MELTON MOWBRAY

MW 21

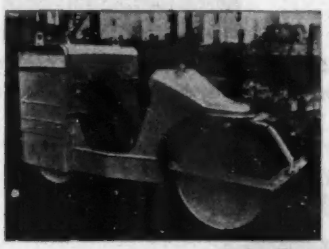
VIBRATING ROLLER HIRE



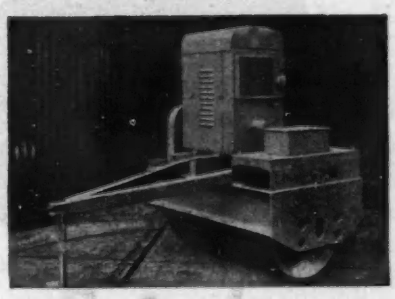
4½ cwt.
HAND PROPELLED



6½ cwt.
POWER PROPELLED
Hand Guided



16½ cwt. TANDEM



27 cwt.
TRAILER

A comprehensive range of tools and equipment to suit all building trades is also available on hire—details on request. Our stock includes road rollers, concrete mixers, compressors, pumps, generators, power floats, rammers, rippers, saw benches, etc.

E. R. COLE LTD.

COOMBE ROAD NEASDEN LANE
LONDON N.W.10
Tel DOLlis Hill 6606

THURMAN'S MILL
VERNON ST. IPSWICH
Tel 51180

ASTLEY

are prepared to finance household repair and improvement contracts over reasonable periods as well as heating and other equipment.

Apply for particulars and proposal form to :-

The Astley Industrial Trust Ltd.,
Pearl Assurance House,
23 Princess Street,
MANCHESTER 2.

Capital and Reserves exceed £2,000,000.
Total Assets exceed £10,000,000,

The "Vestry" Series

regd. Trade Mark 681141

Available from good class stationers and printers

* BUILDERS' TIME SHEETS
* WORKS ORDERS
* VARIATION SHEETS
* DAY WORK RETURNS
* QUANTITY AND ABSTRACT PAPERS

Designed and produced in conjunction with the Advisory Service to the Building Industry to combine economy and efficiency in use.

A. J. PLUNKETT & CO., LTD

88-90a Camberwell Road, London SE5 RODney 5031/2

Guild of Surveyors

EMBRACING :—

AIR SURVEY
ARCHITECTURAL
BUILDING SURVEYORS
ESTIMATING
FIRE SURVEYORS
MARINE SURVEYORS
COST SURVEYORS

ENGINEERING SURVEYORS
AGRICULTURAL
MINING SURVEYORS
RATING & VALUATION
PRECISION SITE SURVEYORS
QUANTITY SURVEYORS
LAND SURVEYORS

SURVEYORS ARE INVITED TO APPLY FOR PARTICULARS OF MEMBERSHIP TO THE SECRETARY, GUILD OF SURVEYORS, 17, WESTBURY AVENUE, N.22

ELLIOTT 20-B1

BUILT IN REFRIGERATOR

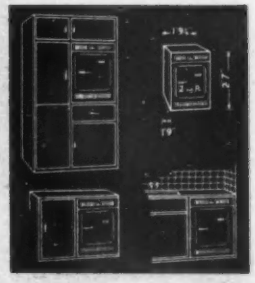
Here is the built-in Refrigerator that the entire building trade have been waiting for. The ELLIOTT 20-B1 is without a doubt the *ideal* refrigerator for built-in installations! This compact, yet BIG capacity, refrigerator more than adequately meets the needs of the average household, and its attractive styling and beautiful finish enhances the modern kitchen.

THE ELLIOTT 20-BI is COMPLETELY SILENT — NO MOVING PARTS TO GO WRONG, and is FULLY GUARANTEED FOR 5 yrs.

ONLY 42½ GNS (INC P.T.)

ELLIOTT OF LONDON GROUP

To engineers the world over, the name ELLIOTT means an unrivalled reputation for nearly half a century for fine Engineering and precision Machine Tools. This is a name that can also mean so much more to you—so much more quality—so much more value—ELLIOTT.



Free literature gladly sent on request to —

ELLIOTT DOMESTIC APPLIANCES LIMITED
Victoria Works, Victoria Road, Willesden, N.W.10. ELGar 4050

LLOYDS PERMANENT BUILDING SOCIETY

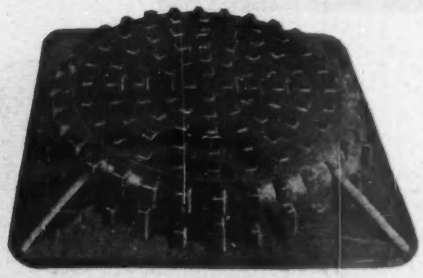
Building finance readily available to builders for the Development of Freehold Residential Housing Estates built for owner occupation. An offer of advance made within 7 days of application and thereafter stage payments within 3 days of application.

For further information please refer to :—

SPRINGFIELD HOUSE · HAYES · MIDDLESEX
Telephone: Hayes 6226/7

Head Office: **PALL MALL, LONDON**

HEAVY ROAD MANHOLE COVER AND FRAME



L. & P.
DEVELOPMENTS LTD

Specialists in Manhole Covers and "Duraduct" Duct Covers and Frames of all Descriptions.

Copies of our Illustrated Brochures, giving details of our full range, from :

L. & P. DEVELOPMENTS LTD., SUFFOLK HOUSE, HAWTHORN GROVE, PENGE, S.E.20.
Sydenham 2331.

INSULATION *plus* IMPREGNATION

For sound and thermal insulation in buildings where conditions of high humidity exist, or where condensation is liable to occur, we confidently recommend BRUNEX.

BRUNEX

BITUMEN INSULATION BOARD

Its insulation properties are equal to those of normal insulating boards, but thorough impregnation ensures maximum resistance to humidity, and greater strength. The bitumen is added to the pulp during manufacture and is thereby evenly distributed throughout the finished product. Brunex does not smell and is not sticky. It should not be confused with boards which are merely dipped.

THICKNESS : ½″ WIDTH : 4′
LENGTH : 8′, 10′, 12′
Please ask for samples and prices.

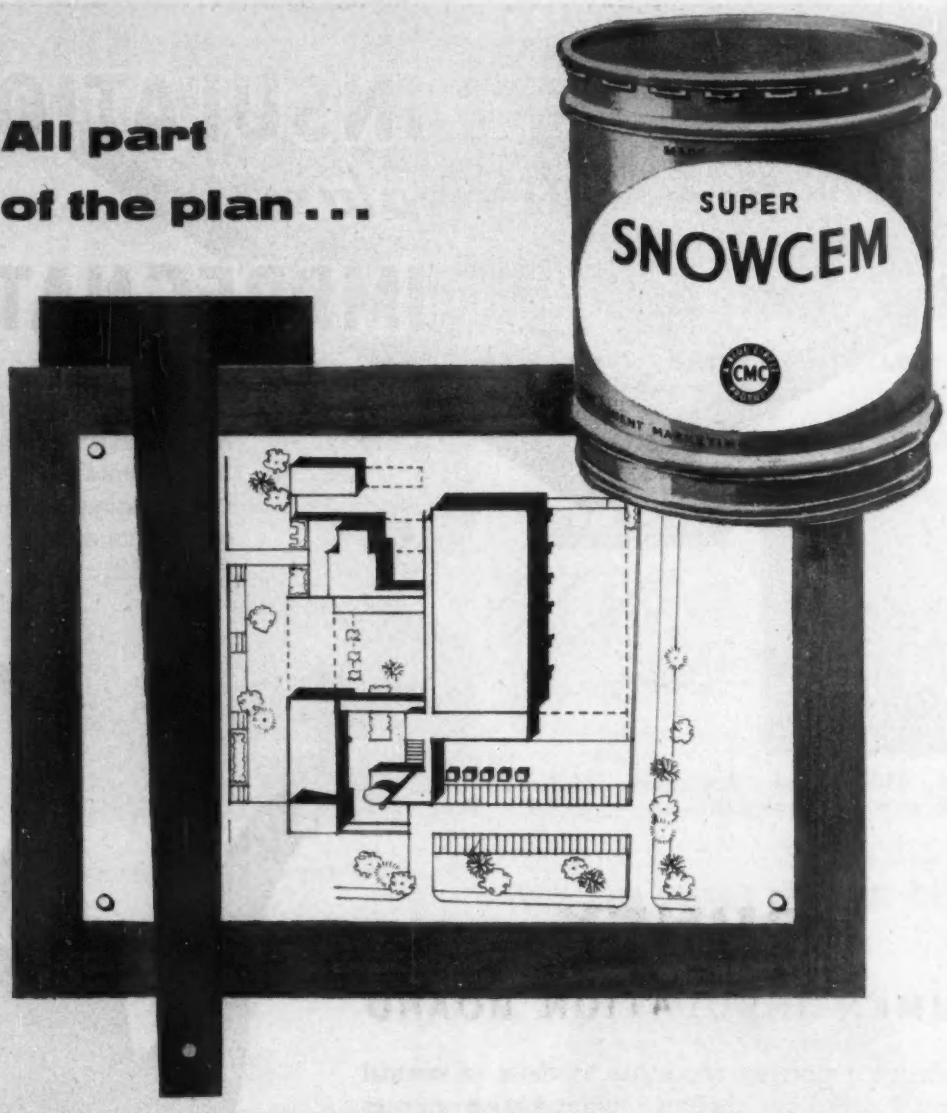
Now available- new JUNE 7 Group Price List of all Wallboards

C. F. ANDERSON & SON LTD

HARRIS WHARF, GRAHAM STREET, LONDON, N.1 — CANonbury 1212

Warehouses also at Mitcham and Southgate

All part of the plan . . .



Super SNOWCEM is ideal for these reasons

- Decoration and protection at the lowest possible cost.
- Easy and quick to mix.
- Attractive range of bright colours.
- High degree of opacity and obliteration.

Super SNOWCEM is ideal for these surfaces

Concrete, cement/sand renderings, cement/lime/sand renderings, roughcast and pebbledash, stock bricks, concrete blocks and concrete bricks, clinker and other lightweight concrete blocks, asbestos cement sheets and most wall and fibre boards.

CMC A BLUE CIRCLE PRODUCT **SUPER SNOWCEM**
WATERPROOF CEMENT PAINT

Write for leaflet and shade card to:
THE CEMENT MARKETING COMPANY LIMITED, PORTLAND HOUSE, TOTHILL STREET, LONDON, S.W.1.
G. & T. EARLE LTD., HULL. **THE SOUTH WALES PORTLAND CEMENT & LIME CO. LTD.,** PENARTH, GLAM.

T159

MISCELLANEOUS ADVERTISEMENTS

Prepaid, twenty-four words, 7/6
each additional six words, 1/6
Display, 30/- (per single column inch)

FOR SALE

SECTIONAL BUILDINGS

- WELFARE CLINICS
- PAVILIONS
- CANTEENS
- SITE HUTS
- STORES
- WATCHMAN'S HUTS

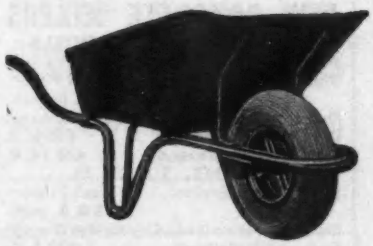
EVERYTHING for the BUILDER and CONTRACTOR also CANTEEN TABLES FORMS AND EQUIPMENT H.P. Terms Available

I. CLIFTON & SONS LTD.
13, Neeld Parade, Wembley, Middlesex
Tel. WEMbley 2921

LADDERS FROM STOCK
STEPS · TRESTLES · BOARDS · DUST SHEETS
Price List from THE PODMORE WORKS
769 Garratt Lane, S.W.17. Tel.: Wimbledon 7622

'BULLDOG' SHOVELS
'DREADNOUGHT' FORKS
The finest one-piece solid forged ENGLISH TOOLS made
Can be purchased from
LONDON STOCKISTS:
JOHN MACNAMARA
& Company Limited
Bush Road, Deptford, London, S.E.8
BERmondsey 3275-1495

CBB Steel Wheelbarrows



CAYLESS BROS. (BATTERSEA) LTD
91/93 BATTERSEA PARK ROAD, S.W.8
LONDON

WANTED

WANTED.—No. 2 CUMFLOW MIXER.—R.B.S., Ltd., Coleford, Bath. Phone Mells 230.

WANTED urgently, second - hand GARAGE DOORS. 6 No. 10 ft. x 10 ft., 2 No. 10 ft. wide x 12 ft. high. —Telephone Kyle, Stewart, WEM 5321, Ext. 12.

BUILDER'S PLANT AND MATERIAL always Required for spot cash.—'Phone details to STReatham 1238.

FOR SALE

MOBILE OFFICES. 2 No. Offices recently returned from Short Contract are now offered for immediate sale. Prospective purchaser will make substantial cash saving on this exceptional offer. 1 No. 22 ft. x 8 ft. "Skimaster" mobile office unit, lined in stained varnished mahogany plywood, condition nearly new. Price only £250. Also one 16 ft. x 8 ft. "Sitemaster" fully lined and divided in two offices, with numerous accessories, newly decorated, and in good condition. Price £350.—Apply MACKS STRUCTURES (LONDON), Ltd., Belvedere Works, Railway-terrace, Feltham, Middlesex. Telephone: Feltham 5761.

FOR Sale: Old PEG TILES (about 14,000); fine OAK RAFTERS, BEAMS, FRAMING, etc., from two farm buildings. Purchaser to demolish.—Offers to BROOKS & SON, Estate Agents, Tonbridge.

FOR Sale: ¼ yd. GF DIESEL DUMPER, new 1956, completely rebuilt and painted. Price £190.—GENERAL ROADWORK, Ltd., Mitcham-road, Croydon. Thornton Heath 8252.

FOR Sale: 1958 "Stothert & Pitt" 5-3½ CONCRETE MIXER, Petter petrol engine. Price £95.—GENERAL ROADWORK, Ltd., Mitcham-road, Croydon. Thornton Heath 8252.

ASBESTOS CEMENT CORRUGATED ROOFING SHEETS FROM STOCK. Prompt delivery. 3 in. Standard 6/8d. sq. yd.; 6 in., 6/11½d. sq. yd. Why pay more?—L. R. HINDLEY, Darvel, The Warren, Radlett, Herts. Radlett 5667.

STOCK BRICKS. Immediate delivery. Sound S.H. Yellow suitable for facings or footings, £8 15s. 1,000, delivered 20 miles radius London in full loads. —L. R. HINDLEY, Dorvel, The Warren, Radlett, Herts. Radlett 5667.

SPECIAL offer of new "YORKSHIRE" and "KONTITE" PIPE FITTINGS (½ in. to 6 in.) surplus to requirements. Now offered for sale at reduced prices to clear.—Write or phone ASTER INDUSTRIAL AND BUILDING SUPPLIES, Ltd., St. Margaret's Wharf, Stanstead Abbots, Herts. Tel.: Stanstead Abbotts 316.

SOMMERFELD TRACK. Sound second-hand condition. 25 yds. x 10 ft. Reinforced every 9 in. by ⅛ in. M.S.R. £12 10s. per roll. Carriage paid London area or 8 rolls and over England and Wales. —H. C. HILL, Ltd., 27 Maxted-road, London, S.E.15. New Cross 3696.

COWLEY LEVEL complete with staff and case, as new, £12 10s. 0d.—H., 6 Lismore-road, S. Croydon.

MANUFACTURERS of CONCRETE PRODUCTS, Fencing, Kerbs, Flags, etc.—C. A. E. C. HOWARD, Ltd., St. John's Works Bedford. Tel.: Bedford 4204.

NEW AIR PUMPS. Diesel MOBILE COMPRESSORS and Armstrong Whitworth PNEUMATIC CONTRACTOR'S TOOLS, HOSES AND ACCESSORIES from stock.—HUBERT C. LEACH, Ltd., High-street, Cheshunt, Herts. Tel.: Waltham Cross 5161.

PUMPS.—Sale or Hire. New or Reconditioned. Hand, Electric and Petrol-driven outfits.—THE GREENWICH PUMP & PLANT CO., Ltd., Denham-street, Greenwich, S.E.10. Greenwich 3189.

SECONDHAND sectional TIMBER BUILDINGS, completely reconditioned, delivered free 100 miles. 24 ft. x 12 ft., £102; 30 ft. x 15 ft., £138; 30 ft. x 18 ft., £154; 60 ft. x 20 ft., £302. Floors extra.—UNIVERSAL SUPPLIERS, Crabtree, Manorway, Belvedere, Kent. Erith 2948.

FOR SALE or HIRE, BUILDMASTER 250 ROTARY TOWER CRANE, 71 ft. Mast, 75 ft 6 in. max. working radius; almost new; ancillary equipment available. £3,450. — H. WIMPENNY, Ltd., Builders, Prestwich, Manchester.

PRESTRESSING EQUIPMENT AT LOWEST COST. All manufacturers' requirements from single anchorages to complete pre-tensioning plants.—STRESSING DEVELOPMENTS Ltd., 95 Kingston Hill, Kingston-on-Thames, Surrey.

ALL HARDWOOD MOULDINGS, PLAIN and EMBOSSED, EMBOSSED ORNAMENTS and DOWELS. Send for catalogue and to-day's lowest trade prices.—DAREVE'S MOULDING MILLS, Ltd., 60, Pownall-road, Dalston, E.8. Clissold 1543-4.

FOR Sale: 9 H.P. LEYLAND FIRE PUMP TRAILER with Summit engine. Capacity 300 gallons per minute. Complete with 21 ft. of 3 in. hose and strainer. £20 or near offer on site.—BOXFOLDIA, Ltd., Dale-road, Bournbrook, Birmingham, 29.

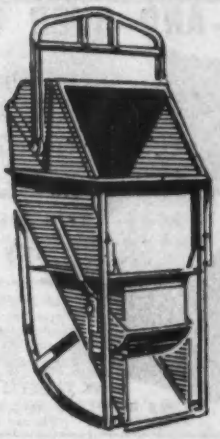
WORKER BUS. 32 Seater Bristol Diesel 7.7. Certificate of fitness. Offers over £300.—Ring TRA 7334.

ONE MILLION FEET TUBULAR SCAFFOLDING, with Fittings, new and used, for sale or hire.—SECURITY SCAFFOLDS Ltd., 92-96 Spring Hill, Birmingham 18. Nor. 4413.

FOR SALE

ALL SIZES — PROMPT DESPATCH
HUTS
PODMORE WORKS
769-773 GARRATT LANE, LONDON, S.W.17
Keen Prices. Phone: WIMBLEDON 7622

ABELSON
ROLLOVER SKIPS
½ cu. yd. capacity



Prices and details from:
ABELSON
& CO. (ENGINEERS) LTD
SHELDON · BIRMINGHAM 26
Phone: SHEldon 2424 (10 lines)
Grams: ABELSON, BIRMINGHAM
ALSO AT LONDON & MANCHESTER

GRANITE SETTS
DELIVERED ANYWHERE
HARRIS & BAILEY LTD.
CROYDON
ADDiscombe 3181 Ref. Mr. T. A. Jones

MARLEY
MAKE THE BEST
CONCRETE GARAGES
BEAUTIFULLY DESIGNED
57 Models from £55
Cash or Credit Terms
Erection Service
COAL BUNKERS
from —— £6.15.0
Free leaflets from
MARLEY CONCRETE LTD
Dept. 754 Passmarsh, Guildford, Surrey. Guildford 62688

FLOORS

PARQUET · STRIP
WOOD BLOCK
IN THE BEST HARDWOODS
laid and polished. Also existing Wood floors re-surfaced and polished by machines. Send for details:

Wachal
FLOORING CO.
52 ROCHESTER ROW, S.W.1
Phone: VICtoria 0687

KEYSTONE
UP-AND-OVER DOOR

Easily Installed

Strong Aluminium Mansard Sheet riveted to angle steel frame. Fireproof, rotproof. Opens or closes at the slightest touch. Can be locked from inside or out.

Easily Operated

All sizes. Send for full details and prices. Also manufacturers of concrete garages, sheds and greenhouses. Agents welcomed.

W. TIBBETTS & SONS LTD
52J BARFORD RD., BLOXHAM
OXON. 'Phone: Bloxham 385

NEW TARPAULINS
EXACT SIZES ONLY

JUTE 16 oz. before green wax proofing. 12' x 9' each 57/6, 18' x 12' each 102/6, 15' x 12' each 87/-, 21' x 15' each 142/6.
FLAX, 16 oz. before green chemical proofing. 12' x 9' each 79/6, 18' x 12' each 142/6, 15' x 12' each 126/6, 21' x 15' each 196/6.
COTTON DUCK, 14 oz. before green wax proofing. 12' x 9' each 82/6, 18' x 12' each 158/6, 15' x 12' each 137/6, 21' x 15' each 232/6.
BRAND NEW SHEETS, carriage paid England & Wales. Fitted long ropes, brass eyelets and strengthening patches.
ANY QUANTITY FROM LONDON STOCK

JOHN MACNAMARA & CO. LTD.
Bush Road, Deptford, London, S.E.8
BER 3275-1435

OLD LONDON YORK PAVING STONE

as supplied to leading Architects and Builders. Orders delivered any distance. Est. 35 years.
S. A. WILLIS
24, Stile Hall Gardens, Chiswick, W.4.
Phone 3358.

CRANES
MORGAN
AND HOISTS
"Lifeways to Profits"
50, Wilkin-st., N.W.5 Gulliver 1147

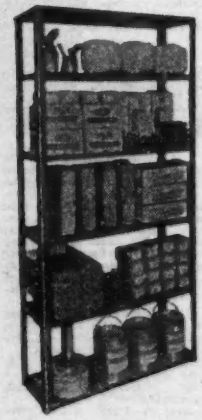
HARD CORE for Sale at Ministry of Supply Factory, Padiham.—Apply THOS. W. WARD Ltd.'s Foreman, T. Howes, Ministry of Supply, Lower House Factory, Cambridge-drive, Padiham.

OFFERS WANTED. FOR SALE: BRAITHWAITE TANK, in good condition, 28 ft. x 12 ft. x 4 ft.—Can be seen at F. MEYERS Ltd., Gipsey Corner, Western-avenue, Acton, W.3.

CAST IRON GUTTERS, Box, Moulded, HR., B. Wall, Valley, etc. 4 to 24 in. wide. C.I.R.W. PIPES, 2, 2½, 3, 3½, 4, 5 and 6 in., Stocks at Hanwell, W.7. (Est. 1932.)—HILLS BROS., 49 Queen Victoria-st., London, E.C.4. CITy 3094.

HOUSE SERVICE ELECTRIC METERS, 200-240v. A.C. 1s. slot Repayment or Credit Pattern from stock.—UNIVERSAL ELECTRICAL, 217m City-road, London, E.C.1.

GET on to Guildwood Packaged Bungalows for greater profit, less worry!—CEDAR HOMES, LIMITED, Dept. 50, Artington, Guildford.



MANUFACTURER'S OFFER OF
STEEL SHELVING

Deliveries free to England, Scotland and Wales
£3 15s.
Ready for Erection

72" High
34" Wide
12" Deep

- *Brand new — Manufactured in our own works*
- *Shelves adjustable every inch*
- *Heavy gauge shelves will carry 400 lbs. each*
- *Bronze enamelled dark green*
- *6 shelves per bay — Extra shelves 8/- each*

Quantity discounts
Also available in White at £5 per bay.

N. C. BROWN LTD.
'B' WING, HEYWOOD, LANCS. Tel.: 69081 (6 lines)

AIDU EQUIPMENT COMPANY LIMITED

Sole Agents for WINGET in Essex

SPARES SALES REPAIRS
Tel: EPPING 2283/4

HEMNALL STREET EPPING ESSEX
dmAD15

Secondhand
SURVEYING APPARATUS
Guaranteed Levels
from stock

Also Land Chains, Steel and Linen Tapes, Surveyors' Measuring Rods, Ranging Poles and Levelling Staves,

We purchase modern 3-screw THEODOLITES for cash.

BRUNNINGS (HOLBORN) LTD.
135, HIGH HOLBORN, LONDON, W.C.1
Phones: HOLborn 4894 & 0312. Established 1922

7,000 CONTRACTORS CAN'T ALL BE WRONG

SAGA Junior

BHC
COMPTON BERKSHIRE
Phone: COMPTON 234

BRITISH HOIST & CRANE COMPANY LTD. ENGLAND

TENTEST
TRADE MARK
CEILING, ROOF & WALL LINING
INSTALLATION SPECIALISTS

SYSTON SERVERY HATCHES
Manufactured by J. TAYLOR (SYSTON) LTD.,
SYSTON · LEICESTER · Tel: Syston 2133 & Manchester RINgway 3996

FACTORY GUARANTEED
SLOTMETERS

HOTELS
CARAVANS
BILLIARDS
TELEVISION
etc. from 55/-
also CHECK METERS
TIME SWITCHES etc.

TRADEX METER CO LTD
(Dept B) 67 MAPLE ROAD, SURBITON
Tel: ELMbridge 4487/5126

NEW CONCRETE MIXERS
PARKER 4/3 & 5/3½ MODELS

MINI GIANT. 4/3 Cu. Ft.
Villiers Petrol Engine. Cash Price £88 0. 0. each.
Deferred Terms (Including service charge)
Payment on delivery £10 0. 0.
8 monthly payments of £10 14. 0.

LITTLE GIANT. 5/3½ Cu. Ft.
Lister Diesel Engine. Cash Price £173 0. 0. each.
Deferred Terms (Including service charge)
Payment on delivery £20 0. 0.
8 monthly payments of £21 0. 9.

CARRIAGE PAID ENGLAND—WALES
DELIVERY AT ONCE FROM STOCK
12 MONTHLY H.P. TERMS ON REQUEST
H. C. HILL LTD.
27 MAXTED ROAD, PECKHAM, LONDON, S.E.15.
NEW X 3696 (3 lines)

EVERLASTO Sash Cord

Rotproof
Weatherproof
Non Stretch
Low Cost

JAMES LEVER & SONS, LTD.
DELPH STREET BOLTON

HARDBOARD
AT THE RIGHT PRICE
8′ x 4′ x ¼″ NOSTEX OR CROWN BOARD.
SINGLE SHEETS 12/9d each
2 to 8 ,, 10/7d ,,
9 to 100 ,, 10/1d ,,
100 or Over Prices ON APPLICATION.
6′ 6″ x 2′ 6″ x ¼″ DOOR SIZES
SINGLE SHEETS 7/9d each.
2 - 50 SHEETS 7/2d each.
CARRIAGE PAID 20 miles from London
IMMEDIATE DELIVERY FROM STOCK
H. C. HILL LTD.,
27, MAXTED RD., PECKHAM, S.E.15
NEW CROSS 3696 (3 lines)

TWO-WAY INTER-COMS

Install your own system with our complete ready to use 2-way intercom kit. For £12.12.0, carriage free, you will get 2 telephones, 100 ft. cable and batteries. Brand new, the telephones are moulded in shatter-proof plastic, each instrument being self contained with built-in buzzer and push-button system. They work over unlimited distances indoor or outdoor. The cable meets rigid G.P.O. standards and the batteries are Ever Ready Long Life. Nothing for you to do but connect 4 wires to screw terminals. This is a quality product and fully guaranteed for 3 years. (Extra cable 2d. per foot.) Send your instructions or write for brochure.

D. J. P. TELEPHONES LTD.
Dept. B. 96, Great Titchfield Street, London, W.1
Tel.: LANgham 5153

DUMPERS
for
SALE or HIRE
THWAITES ¾yd.—1yd.—1½yds.
DANDRIDGE'S of GREENWICH
The Greenwich Plant Depot
WOOLWICH ROAD, S.E.10
Tel. No.: Greenwich 3188-9

YOU CAN
DRAIN YOUR SUMP WITH A
"Muckypump"
-a Petrol-Driven DIAPHRAGM PUMP FOR UNDER £85
GREENWICH PUMP & PLANT CO. LTD.
DENHAM STREET, S.E.10
Phone: GREENWICH 3189

FOR HIRE

BELLMANS MASTS for hire to lift from 1 to 20 tons. 30 ft. to 150 ft. Blocks and tackle. Hand operated winches. From £1 per day.—BELLMAN'S, Hobart House, Grosvenor-place, S.W.1. 'Phone: SLOane 5259.

SCAFFOLDING
50 tons Steel Scaffold Pipes in lengths 5 20 ft.
5 tons Steel Scaffold Clips.
Used material in excellent condition, at an attractive price.
DOWNINGS (BARNSLEY) LIMITED,
Doncaster-road, Barnsley, Yorkshire
Tel.: Barnsley 3603/4/5.

DINKUM MAJOR EXCAVATORS/LOADERS FOR HIRE. Full bucket range, competent operators. Would quote long or short hire.—E. W. BUNCE & SON. 'Phone: Bourne End 1060.

FOR HIRE.—TUBULAR SCAFFOLDING, Scaffold Boards, Extension Ladders, Trestles, Steel Props, Tarpaulins and Dust-sheets, etc., CONCRETE MIXERS, Compressors, Pumps, Electric Hammers, etc.—HAINES PLANT, 133, Finchley-road, N.W.3. PRImrose 3324.

PARDIX PLANT
FOR HIRE

DROTT SHOVELS, BULLDOZERS, DINKUMS, and all Contractors' plant for hire. Clearance and site preparation undertaken. Telephone: Waltham Cross 3496 and 4913.—PARDIX PLANT ENGINEERS, Ltd., 62-72 High-street, Cheshunt, Herts.

SLOGGETTS (ENGINEERING) CO. LTD.
FOR HIRE

Dinkum Diggers—Modern Machines.—2 Burtons-road, Hampton Hill, Middlesex. Molesey 6704.

THREE KW. 110v. D.C. PETROL GENERATORS for Hire. Ideal for site electric lighting and power tools.—PARK-STANTON & CO., 72, Leadenhall-street, E.C.3. AVE 1416.

FOR COMPRESSOR HIRE SERVICE.—Modern DIESEL MACHINES, lorry-mounted, also portable.—Telephone LEACH, Walt'sam Cross 5161.

HIRE
LADDERS
UP TO 80 FT. EXTENDED
TOWER LADDERS
UP TO 35 FT WORKING HEIGHT
POLE LADDERS
UP TO 80 RUNGS
TRESTLES & STEPS
FROM
JOHN MACNAMARA & CO. LIMITED
BUSH ROAD, LONDON, S.E.8
BERMONDSEY 3275 & 1435

FOR HIRE
DIESEL COMPRESSORS
with pneumatic tools.
LIGHT DUMPERS · PUMPS · CONCRETE MIXERS
RAMMERS, etc.
Largest range and variety of Pneumatic Tools in the Midlands or separate Hire.
THE DOUGLAS HIRE CO., LTD.
Greenhough Rd., Lichfield, Staffs. Lichfield 2287

PODMORE WORKS

SITE HUTS
FROM STOCK
769-773, GARRATT LANE, S.W.17
PHONE - WIMBLEDON 7622

FOR HIRE
EXCAVATORS
TRACTORS
TRAXCAVATORS
LOADING SHOVELS
COMPRESSORS
LIGHT DUMPERS
CONCRETE MIXERS, ETC.
H. COX & SONS
(PLANT HIRE) LTD.
33 SOUTHAMPTON WAY
CAMBERWELL S.E.5
RODNEY 2215 (4 LINES)

"In the right place—at the right time."
For hire with guaranteed service:
Bulldozers, Scrapers, Excavators,
Air Compressors, Pumps, Hoists, etc.
PLANTIRE LIMITED.
79, ECCLESTON SQ., S.W.1
Tel.: VIC. 9161

CASWELL Tel.: RIVerside 6922/5
CRANES
& ERECTION LTD.
GROVE WORKS, HAMMERSMITH, W.6.
MANUFACTURE for SALE or HIRE
GUY DERRICKS
From 3 to 100 tons
LIFTING DERRICKS
From 1 to 100 tons—200 ft. High
WINCHES HAND or POWER OPERATED
10 tons capacity direct
BOGIES to any gauge for any load
Also HIRE SCOTCH DERRICKS
up to 15 Tons—120 ft. Jibs.
Birmingham Office: LOMBARD HOUSE, GREAT CHARLES STREET, Tel.: Birmingham CENTRAL 7451/2
Exclusive HIRE AGENTS for ANDERSON-GRICE CRANES

3/2 MIXERS 'HALF BAG' BENFORD
FOR HIRE
30/- PER WEEK
PETROL OR ELECTRIC—1 PHASE
JOHN MACNAMARA & CO. LTD.
Bush Rd., Deptford, London, S.E.8. BER 3275-1435

"YOU CAN ALWAYS *HIRE* A GREENWICH PUMP"
GREENWICH PUMP & PLANT CO., LTD
DENHAM STREET S.E.10
Phone: GREENWICH 3189

FOR HIRE

★ POLE LADDERS
★ TOWER LADDERS
★ EXTENSION LADDERS
★ STEPS, TRESTLES
★ BOARDS
★ CONCRETE MIXERS
and of course
STEEL SCAFFOLDING
★
IMMEDIATE DELIVERIES FROM

STEPHENS & CARTER LTD.
731-761 HARROW ROAD, N.W.10
Telephone: Ladbroke 1191 (7 lines)
CORONATION ROAD, HIGH WYCOMBE, BUCKS.
Telephone: High Wycombe 3183
BORDESLEY GREEN, BIRMINGHAM, 9
Telephone: Victoria 1225
WEST CANAL STREET, COATBRIDGE, SCOTLAND
Telephone: Coatbridge 525

THE UNIQUE PLANT SERVICE

We claim to have the most comprehensive PLANT HIRE SERVICE in this country.

We can supply almost everything the builder requires, from a drain plug to an excavator.

☆ ☆ ☆

OUR LORRIES DELIVER DAILY IN THE LONDON AREA

☆ ☆ ☆

SYMES (PLANT) LTD.
ALBERT WORKS
BRENTWOOD · ESSEX
Telephone No.:
BRENTWOOD 2116 (5 lines)

N D & H

TUBULAR SCAFFOLDING AND CRADLES CONTRACT
HIRE or SALE
Speedy Service. Competitive Prices
NICOLL, DAWSON & HUMPHRIES, LTD.
1, Southern Grove, Mile End, E.3
Tel.: ADVance 1927-4511

MOBILE COMPRESSORS

FOR HIRE OR SALE

MOORE'S

MOORE'S PLANT LTD.
105-129 MARKFIELD ROAD
TOTTENHAM LONDON N.15
RING TOTTENHAM 0401
dm MO 108

SCREED VIBRATORS
FOR HIRE!

CONTRACTORS SERVICES LTD.
65, EFFRA ROAD LONDON SW2
TELEPHONE: BRIXTON 4081
dm CS 15

WANTED—PAINTING and DECORATING
By Contract or Measurement Est. 1925
All work Guaranteed to your entire satisfaction
G. & H. HOUSDEN, 21, Stafford Road, Wallington. Phones: Wallington 9848 Pollards 1975

CONTRACTS WANTED

OLD-ESTABLISHED Builders and Decorators, Kensington and S.W.1 districts, are now undertaking Glazing (large and small jobs). All types of glass supplied from stock and cut to size. Work guaranteed.—SLOane 1816.

GRANOLITHIC WORK wanted. Paving, staircases, also screeding.—J. McGOWAN, 193 Devonshire Hill-lane, N.17. Tel.: BOW 2166.

BRICKWORK repairs and Pointing wanted. Own plant and transport. Anywhere London area.—L. & E. PEACHEY, 455 Great Cambridge-road, Cheshunt, Herts. 'Phone Waltham Cross 5043.

BRICKWORK. New, Repairs, Pointing. Greater London area.—FRENCH & BEEKE, Grosvenor 2024.

CRADLES erected on time at the right price.—Ring THE PETER COX CRADLING COMPANY, GRO 2023.

EXCAVATIONS by hand or machine—FOOTINGS—DRAINS—any distance—reliable men. 1st class supervision.—Ring MULKERRINS, Ltd., Mayfair 5076.

STONE Restoration and Cleaning, London or Provinces. Competitive prices.—PETER COX & PARTNERS, 33 North-road, W.1. Mayfair 1306.

ALBERT BROWN & CO. (PLUMBING), Ltd., for all Plumbing and Heating work.—Write 98 North-drive, Hounslow, or ring HOU 6842. (Reg.)

PRIVATE DRIVES, FORECOURTS, ESTATE ROADS, etc., resurfaced or reconstructed by specialists. Tarmacadam or Tarspraying. Estimates free.—STANLEY LUCAS (Slough) Ltd., Alexandra-road, Slough 21279.

BRICKWORK SUB-CONTRACTS wanted in and around London. First-class work guaranteed at reasonable prices.—A. P. ADKIN, Ltd., 73 Crouch Hall-road, Hornsey, N.8. Mountview 2491.

JURA ASPHALTE invites inquiries for asphalt FLAT ROOFS, GUTTERS, and COLOURED FLOORS. Prompt work and keen quotations.—407, Wandsworth-road, S.W.8. MAC 3600.

SOILING, SEEDING and TURFING. Work undertaken in any part of U.K. at competitive prices.—GILLIAM, Purley. UPLands 9222/6.

PAINTING AND DECORATING Wanted. Labour only, or Labour and Materials.—SHELDRAKE, 185, Hainault-road, London, E.11. Telephone LEYtonstone 3963.

G. BARTER & CO., Industrial Decorative Spray and brush painters (labour only or contract). We supply equipment.—1a, Whitton-way, Hounslow, Middlesex. HOUnslow 9615. SOUthall 3815.

PAINT SPRAYING SPECIALIST. Contracts wanted. Private or Sub.—STRATFORD CONDREN. WOO 1578.

SITE CLEARING, Demolition, roads, kerbs, paving, sewers, footings, concrete, brickwork and plastering (labour or both). Mobile gangs.—CHAMBERS & SONS, 20 Peterborough-road, Harrow.

EXCAVATIONS, site clearing, drainage, concrete, demolitions, roadwork, etc.—COFFEY AND SON, Ltd., 147 Rushey Green, S.E.6. HIT 8667.

PLASTERING WORK of any description wanted. For a first class job at competitive prices communicate with WALTER BARRY, Ltd., 170 Hornsey-lane, N.6. Tel.: ARChway 3187.

L. A. BRIGGS, BROS., Plumbing Contractors, 8 York-hill, West Norwood, London, S.E.27. Tel.: GIP 4927, BAL 7427.

SUB-CONTRACTS wanted for Brickwork of any description: Schools, Factories, Boiler and Furnace Work, Sewer Beds and Manholes, etc. Let us quote you or price your bills. L/O.—BASS BROTHERS. Telephone: Blackmore 201, or write Doddinghurst Hall, Church-lane, Doddinghurst, Essex.

ERECTION and DISMANTLING. Structural steel work and all types of prefabricated components. Speedy and efficient service.—ERECTORS, 80 Bullwell-crescent, Cheshunt, Herts. Waltham Cross 2564.

PLUMBER and Sanitary Engineer. Domestic and Central Heating Engineer. Labour only.—F. W. COX, 16 Woodmansterne-road, Streatham-vale, S.W.16. POLlards 9711.

CARPENTRY CONTRACTS wanted, large or small estates, first and second fixing only to flats, etc.—A. T. HOWARD, Ltd., 537 Rochester-way, Sidcup, Kent. Bexleyheath 3778.

FORM WORK, 1st and 2nd Fixings, in and around London. First-class work. Strength 80 carpenters. Fully mobile.—HAINES & SON, Ltd., 86, Atlantic-road, Brixton, S.W.9. Tel.: BRI. 7260 and 2977.

PAPERHANGING WANTED. All types. Inquiries welcomed.—G. W. BOLTON, 34 Rushton House, Albion-avenue, S.W.8. Tel.: MAC 6045 after 5 p.m.

BRICKWORK. Alterations and Pointing Wanted. Greater London and Suburbs preferred. Established 50 years.—READER & SON, 5 Muswell-road, N.10. TUDor 7573 after 5.30 p.m.

ELECTRICAL INSTALLATIONS.—Consult W. BYROM, Ltd., Station Approach, Cheam, Surrey. Telephones: VIGilant 5844 and Bookham 2657.

CONTRACTORS WANTED

PRESTRESSED CONCRETE. Licensees Required to manufacture our wide range of prestressed concrete products. Small capital outlay.—STRESSING DEVELOPMENTS, Ltd., 95 Kingston Hill, Kingston-on-Thames, Surrey.

SUB-CONTRACTORS, all trades. Applications are invited for subcontract enquiries for work to be carried out in the Slough area within the next 6 weeks. Applications should include details of subcontracts recently completed in this area with suitable references.—Apply in writing to Labour Manager, MESSRS. CROUDACE, Ltd., 97 Godstone-road, Caterham.

JAMES JOINERY

All classes of work executed. Individual or Repetition items. DOORS, SASHES, STAIRCASES, SHOP FITTINGS, AND SHOP FRONTS, ETC.

Sawing, Planing and Mouldings

ROMSEY WORKS
2, COMMERCIAL WAY, S.E.15
RODney 5151

S. BENNETT & SON
(WOOD FLOORING) LTD.

Specialists in:
WOOD BLOCK • HARDWOOD
T & G STRIP • PARQUET
FLOORING

Prepared from prime flooring strips; Kiln dried in modern Kilns; Manufactured and laid by experienced craftsmen.

Other Specialities:
CORK • LINO • RUBBER
PLASTIC TILES • "LEYTONE"
The Superior Jointless Composition Floor

QUEENS PARK ROAD • HAROLD WOOD
ROMFORD • ESSEX
TEL.: INGREBOURNE 3025-6-7

R. W. LOCKWOOD

"Syndal," Pippa Hill Rd., Grays Hill, Billericay, Essex
Telephone: BASILDON 217

Plastering & Granolithic Contractors

345 GREEN LANE, SEVEN KINGS, ILFORD
Telephone: SEVEN KINGS 7551

J. J. CLANCY & CO.

PLASTERING AND GRANOLITHIC PAVING

Enquiries to
54 PALACE GATES RD., WOOD GREEN, N.22
Telephone: Bowes Park 2157

HOOK'S JOINERY

WORKS LTD.
BECKENHAM 2246

MASTIC SEALING AND POINTING

Whenever you require Mastic Sealing, pointing or weather proofing treatments get in touch with Expandite Limited, who can arrange for contract work to be carried out throughout the country.

EXPANDITE LIMITED
CHASE ROAD, LONDON, N.W.10 Telephone ELGar 4321 (10 lines)

It pays to try OLDACRES first!*

Reproduction of Bills of Quantities

*OLDACRES & CO LTD
62, HATTON GARDEN, LONDON, E.C.1
CHAncery 8242

PATENTS & TRADEMARKS

"SWAN FLOORING" is the Registered Trade-mark of Fine Hardwood and Softwood Flooring—Manufactured in this country by J. H. & F. W. GREEN, LTD., Charlton Sawmills, Singleton, Chichester, who will gladly send stock lists and price lists on request.

PARTNERSHIPS, PRACTICES, ETC.

ADVERTISER/SENIOR QUANTITY SURVEYOR (36) with considerable professional office experience, some management, desires future salaried or capital investment partnership with chartered quantity surveyor. Would enter small established practice, with principal, pre-retirement, and continue on profit sharing basis; consider purchase. Highest references, trial period if desired. Southern counties.—Box 1606, "The Builder."

HEATING, Ventilating and Plumbing Company with turnover of 1½ million pounds per annum is interested in associating with large building contractor with a view to carrying out contracts.—Please reply to Box 980, "The Builder."

PUBLIC NOTICE

HAMMERSMITH TOWN HALL.—Assembly Hall Suite and/or Small Hall available for Dances, Dinners, Dinner/Dances, Concerts, Conferences, Meetings, etc. Catering by the Council's Catering Service. Enquiries: RIVerside 3020 (Ex. 41).

FINANCIAL

BUILDING FINANCE advanced to approved applicants on houses and bungalows as building work proceeds to suit reliable builders. For prompt attention please forward full particulars of amount required on each property and number of properties. —Box 1537, "The Builder."

BUILDING FINANCE
You'll do a good site better if properly financed. By consulting AVENUE MORTGAGES you are sure to find the finance you require for the next project, whether two houses or a 20-acre estate. The small man or newcomer to the speculative field will be equally welcome.—'Phone RIVerside 8681-2 or write to 165 King-street, W.6.

MORTGAGES, Re-Mortgages and Second Mortgages on all classes of properties.—Particulars: SPENCER, 29 Spencer House, Cambridge-road, London, N.W.6.

PROPERTY INVESTMENTS

INVESTMENTS REQUIRED
BLOCKS OF FLATS, HOUSES AND MAISONETTES in London or Provinces URGENTLY REQUIRED for special buyers. Controlled or decontrolled. Large funds available.—Details of small or large parcels to COWDREY, PHIPPS & HOLLIS, F.A.L.P.A., Investments Dept., Neasden-lane, London, N.W.10. DOL 6671/3.

THE ELLIS SCHOOL

(Principal: A. B. Waters, M.B.E., O.M., F.R.I.B.A., F.I.Arb.)

established 64 years and specialising in home-study Courses for members of the building industry offers guaranteed tuition at very moderate fees.

QUANTITY AND BUILDING SURVEYORS
Courses for all R.I.C.S., I.Q.S. and L.A.A.S. exams.

ARCHITECTS
Courses for R.I.B.A. Inter. Final and Special.

BUILDING TRADE
Courses for L.I.O.B., Building Inspectors, M.I.O.W. A.I.B.E., M.R.S.H., City and Guilds exams. Courses in Building Construction, steel-work, reinforced concrete, etc. Courses for Builders' Managers, General Foremen, etc.

Post coupon for HANDBOOK describing the Course which interests you. Expert advice willingly.

THE ELLIS SCHOOL
103a, OLD BROMPTON RD., LONDON S.W.7
and at Albany House, Worcester

Subject _____
Occupation _____ Age _____
Name _____
Address _____

R.I.B.A. & T.P.I. EXAMS

STUART STANLEY (Ex-Tutor School of Arch., Lon. Univ.) & G. A. CROCKETT, M.A./B.A., F./A.R.I.B.A., M./A.M.T.P.I. prepare students by correspondence tuition, 17 Adelaide Street, Strand, W.C.2. TEM. 1603/4

APPOINTMENTS OPEN

L.I.O.B., A.R.I.C.S., R.I.B.A., A.M.I.C.E., etc., on "NO PASS—NO FEE" terms. Over 95 per cent. successes. For details of Exams and Courses in all branches of Building, Surveying, Civil Eng., Timber Technology, Forestry, etc., write for 148-page handbook.—FREE.—B.I.E.T. (Dept. 710), 29, Wright's-lane, London, W.8.

QUALIFIED ARCHITECT Required as DIVISION ARCHITECT in Manchester office of Mobil Oil Company. Applicants must be A.R.I.B.A., interested in contemporary design, capable of administration and controlling work through all stages of development. Must hold current driving licence. Full range of employee benefits. 5-day week. 3 weeks' holiday after one year's employment.—Write giving details of age and experience to Employment Adviser, MOBIL OIL CO., Ltd., Caxton House, Westminster, S.W.1, quoting Ref. DAM0238B.

H. AND H. M. LIDBETTER Require JUNIOR ASSISTANT up to Intermediate standard.—Apply stating age, experience and salary required to 2 Verulam Buildings, Gray's Inn, London, W.C.1.

EXCELLENT opportunity with expanding Building and Development Company in South Bucks exists for a responsible Intermediate Standard ARCHITECTURAL ASSISTANT, salary range £600-£750 p.a., for varied and interesting work in their recently formed Architects' Department.—Box 1495, "The Builder."

LOUIS DE SOISSONS, PEACOCK, HODGES & ROBERTSON have immediate vacancies for Senior and Junior ARCHITECTURAL ASSISTANTS. —Please write stating age, experience and salary required to Midland Bank Chambers, Howardsgate, Welwyn Garden City, Herts.

ARCHITECT'S ASSISTANT, Inter. Standard not necessarily qualified, for busy West End office. Variety of interesting projects. Salary by arrangement.—Write Box 1590, "The Builder."

YOUNG ARCHITECTURAL ASSISTANT Required. Previous experience. Good detail draughtsman with knowledge of building construction. Varied work.—Apply in writing giving full particulars to T. MORTIMER BURROWS & PARTNERS, 44 Bedford-row, London, W.C.1.

BASIL SPENCE & PARTNERS Require final standard assistants with about five years' office experience.—Write to 48 Queen Anne-street, W.1, stating experience and also salary required.

ARCHITECTURAL ASSISTANT of Inter. Standard with industrial experience Required for work on Atomic Power Stations. Excellent opportunities in an expanding London office.—Apply stating age, experience, and salary range, to The Chief Architect, NUCLEAR CIVIL CONSTRUCTORS, 52/55 Carnaby-street, London, W.1.

ASSISTANT ARCHITECT Required by John and David Martin Limited. This Company is a member of the Laing Organisation. Applicants should be of intermediate R.I.B.A. standard, preferably with housing experience. The position offers opportunities for advancement in a busy office on a variety of work connected with private housing estate development. Contributory Pension scheme, 5-day week.—Applications to Personnel Manager (Ref. J.D.M.A.2), JOHN AND DAVID MARTIN Ltd., Page-street, Mill Hill, London, N.W.7.

NORMAN & DAWBARN invite applications from ARCHITECTURAL ASSISTANTS at Intermediate/Final standard with at least 3 years' office experience. Salary £850/£900 p.a.—Write to: 7 Portland-place, W.1, giving full particulars.

R. C. [STEEL] LTD.

FABRICATORS AND STOCKHOLDERS OF REINFORCING BARS.
WEYBRIDGE 5732

STATION YARD
ADDLESTONE
WEYBRIDGE
SURREY

GEORGE WIMPEY & CO., LIMITED

The Architects Department's current work covers all types of technical, industrial and domestic projects.

Appointments are available for a wide range of experience, particularly for assistants who appreciate the contribution good design can make towards efficient construction and are interested in applying cost knowledge to detailing.

Appointments on a permanent basis are immediately available at Head Office for

ASSISTANT ARCHITECTS and ARCHITECTURAL ASSISTANTS.

Salaries will match qualifications and experience and, following a probationary period, there is a Pension Scheme, available.

SHORT-TERM APPOINTMENTS for periods up to 12 months are also available for Senior and Intermediate Assistants at Head Office on working drawings and details for large industrial building projects, good salaries offered.

Applicants should write to E. V. Collins, A.R.I.B.A., Hammersmith Grove, London, W.6.

FURTHER SENIOR ARCHITECTURAL ASSISTANTS Required by continually expanding Housing Estate Development Company. Proficient in preparation of working drawings from sketches, estate layouts, and/or roads and sewerage design. Salaries range from £936-£1,150.—Tel. McMANUS & CO., Ltd., Potters Bar 2315. Ext. 12, for appointment.

ARCHITECTURAL ASSISTANT Required immediately, of intermediate standard, able to work on own initiative. Permanent position; holiday arrangements respected.—'Phone or write for interview to NICHOLSON & RUSHTON, 2 New Square, Lincoln's Inn, W.C.2. Holborn 2095.

TWO experienced ARCHITECTURAL ASSISTANTS Required, one senior and one of intermediate standard for newly formed Branch Office in Nottingham. The positions offer prospects of advancement and are pensionable.—Applications, giving full particulars, to G. S. HAY, F.R.I.B.A., Chief Architect, CO-OPERATIVE WHOLESALE SOCIETY, Ltd., 1 Balloon-street, Manchester, 4.

ARCHITECT or ARCHITECTURAL ASSISTANT Required by firm of industrial contractors in Midlands area. Four-day week would be acceptable.—Write giving full details of ability in structural steelwork and industrial design, salary required, etc. —Box 1611, "The Builder."

ARCHITECT'S ASSISTANT Required in Birmingham Office of Multiple Stores. Applicant must be competent to prepare schemes, working drawings and Specifications and to carry out surveys and supervision, largely on their own initiative. Five-day week. Superannuation Scheme.—Please send particulars of experience, salary required, etc., to Box 1538, "The Builder."

ARCHITECTURAL ASSISTANT of intermediate standard Required in Architect's Department of Consulting Civil Engineers. Applicants must be good draughtsmen capable of preparing working drawings and details, etc., under supervision and have had at least four years' practical experience. Pension Scheme; 5-day week; luncheon vouchers.—Apply in writing, giving full particulars of qualifications, training and experience, etc., to J. D. & D. M. WATSON, MM.I.C.E., 67 Tufton-street, Westminster, S.W.1.

ASSISTANTS Required, Dorset and Great Missenden. Salary £500-£850 according to experience.—W. LESLIE JONES, Architect, 59 High-street, Great Missenden, Buckinghamshire. Tel.: Great Missenden 2306.

ROWNTREE & CO., Ltd., have a vacancy in their Architects' Department for an ARCHITECTURAL ASSISTANT. Applications are invited from men of final R.I.B.A. standard, who are preferably under 30 years of age and have experience and knowledge of factory construction and alteration.—Please write for further details and application form to The Staff Officer (Men), ROWNTREE & CO., Ltd., The Cocoa Works, York.

ARCHITECT'S ASSISTANT Wanted, Intermediate Standard, in busy office. Good prospects. Holiday arrangements honoured.—Apply WINTER & PICKERING, 32 Holborn Viaduct, E.C.1.

ARCHITECTURAL ASSISTANT. Intermediate standard, office experience, driving licence holder, keen to work in country practice. Salary by arrangement.—Box 990, "The Builder."

SEVERAL SENIOR AND INTERMEDIATE ARCHITECTURAL ASSISTANTS are Required for commercial projects including Hotel, Theatre and extensive development schemes of offices and light industry etc., in London Architect's Office. Holiday arrangements will be recognised. 5-day week. Salary according to experience.—Telephone City 8811.

EXPERIENCED ARCHITECTURAL ASSISTANTS Required, one qualified and one of at least Intermediate standard, for Branch Office Birmingham, engaged on a varied and interesting programme of Commercial projects. The positions are pensionable and a five-day week is in operation.—Applications giving full particulars to G. S. HAY, F.R.I.B.A., Chief Architect, CO-OPERATIVE WHOLESALE SOCIETY, Ltd., 1 Balloon-street, Manchester, 4.

BARCLAYS BANK LIMITED
require
Qualified Architectural Assistants, Architectural Draughtsmen, and Shop Fitting Draughtsmen
aged 28/33.
Apply to their Premises Department,
42, Gracechurch Street, London, E.C.3.
Tel: MANsion House 8051.

THE LONDON ASSOCIATION OF BUILDERS' FOREMEN AND CLERKS OF WORKS

Memorial Hall, Farringdon Street, London, E.C.2

★ Provides against Unemployment & Death
★ Pensions for Aged Members or Widows
★ Applications for Membership invited

Experienced Foremen and Clerks of Works can be obtained by applying to the Secretary
Mr. J. S. Rigden
50 WARREN ROAD
BANSTEAD, SURREY

INTERMEDIATE standard ASSISTANT Required with experience of industrial work, for Architects' London (City) office. Salary by arrangement.—Write Box 908, "The Builder."

ARCHITECTURAL ASSISTANT, London. Final Standard. Industrial and Commercial. Progressive and interesting. Salary according to experience and ability.—Box 901, "The Builder."

ARCHITECTURAL ASSISTANT. Intermediate Standard. Busy London office. Good prospects. —Box 907, "The Builder."

JACK GODFREY-GILBERT, F.R.I.B.A., requires an ASSISTANT not necessarily qualified but willing and able to take responsibility. Good prospects and permanent position in small but very busy private practice with branch office shortly starting on South Coast.—Please apply in writing with full particulars to 1-3 The Broadway Wimbledon, S.W.19.

HARRY W. WEEDON, F.R.I.B.A. & PARTNERS have vacancies for SENIOR AND ASSISTANT ARCHITECTS for a wide scope of projects.—Write with full particulars and salary required to HARRY W. WEEDON, F.R.I.B.A. & PARTNERS, 45-47 Calthorpe-road, Edgbaston, Birmingham.

QUALIFIED ASSISTANT ARCHITECT and other ASSISTANTS able to take responsibility Required in Midlands office, varied work.—Write stating experience and salary required to Box 1559, "The Builder."

LOUIS DE SOISSONS, PEACOCK, HODGES & ROBERTSON have immediate vacancies for senior and junior assistants.—Write stating age, salary and experience to the above at 3, Park Square Mews, Upper Harley-street, London, N.W.1.

GOOD all round Inter. to Final ASSISTANT Required, with sense of responsibility. Holiday this year. Salary by arrangement.—Apply to R. DANNATT & SON, FF.R.I.B.A., 65a Duke-street, Chelmsford. Telephone: 3857.

ASSISTANTS Required with three to five years' office experience. Inter to Final Standard. Salary by arrangement.—Apply DUNCAN AND PARTNERS, Chartered Architects, 9 Hertford-street, Mayfair. Tel.: GRO 1532.

REINFORCED CONCRETE DESIGNER Required for varied and interesting work on Precast and in situ Multi-Storey Frame and other structures. Minimum 5 years' experience. Good salary. Pension Scheme.—Write or call DIESPEKER & CO., Ltd., Clifton House, Euston-road, N.W.1. EUSton 4801.

REINFORCED CONCRETE DESIGNER capable of designing all classes of structures, also REINFORCED CONCRETE DETAILER, capable of producing clear working details. Five-day week, and non-contributory pension scheme. Near Victoria-station.—Apply stating experience and salary required to THE INDENTED BAR AND CONCRETE ENGINEERING CO., Ltd., 171 Victoria-street, London, S.W.1.

ARCHITECTURAL DRAUGHTSMAN, 20-28 years, Required by large multiple organisation. A knowledge of shopfitting an advantage. Details of experience and salary required to Box 1612, "The Builder."

JUNIOR DRAUGHTSMAN or DRAUGHTSWOMAN Required by MYTON LIMITED (a member of the Taylor Woodrow Group) in their Planning Office for interesting and varied work.—Replies, with particulars of experience, marking envelope "Application," to the Director and General Manager, MYTON, Ltd., "Western House," Western-avenue, Ealing, London, W.5.

BUILDING TECHNICIANS. A well-known Company of R.C. Contractors in North London offer to keen and energetic young men a unique opportunity to train as R.C. Draughtsman. Applicants (age 21-26) should have O.N.C. Building or equivalent and will be encouraged to continue studies. Progressive salary scale. Apply stating age and full details of experience.—Box 1599, "The Builder."

ARCHITECTURAL DRAUGHTSMAN Required for Manchester Office of Barclays Bank, Limited, engaged on interesting and varied work; the post is permanent and pensionable for suitable applicant of 28 years or over having sound experience in detailing. —Reply giving particulars of age, experience and present salary to Architectural Representative (Premises Department), BARCLAYS BANK LIMITED, 41 Fountain-street, Manchester, 2.

JUNIOR ARCHITECTURAL DRAUGHTSMAN Required for interesting and varied work. 5-day week. Restaurant. Sports and Social Club.—Apply Staff Officer (P.A.7), NAAFI, Kennings-way, Kennington, S.E.11.

JUNIOR DRAUGHTSMAN, Improver, for varied and interesting work in busy West End office. Salary by arrangement.—Write Box 1591, "The Builder."

DETAIL DRAUGHTSMAN Required for permanent position in Drawing Office, Shopfitting, joinery, etc. Pension Scheme in operation.—Write for appointment: FRANK W. CLIFFORD, LIMITED, 29 Vauxhall Bridge-road, London, S.W.1.

BUILDING DRAUGHTSMAN Required in busy Cambridge office of Chartered Surveyors and Land Agents. Applicants must be quick neat draughtsmen having sound knowledge of building construction and be capable of preparing working drawings from sketches, etc. Successful applicant will be required to take charge of Drawing Office. Permanent and pensionable position for right applicant. Applications stating age, qualifications, salary etc., to be received not later than 27th June, 1959. Envelopes to be marked H.O.J.C.J., Confidential. MESSRS. J. CARTER JONAS & SONS, 27/28, Market Hill, Cambridge.

SHOPFITTING DESIGN DRAUGHTSMAN. Harrods Ltd. have a vacancy for a SHOPFITTING DESIGN DRAUGHTSMAN in their Architect's office. Experience in the design of good-class fittings and store layout an asset. Permanent, pensionable post.—Apply, giving full details of age, experience, etc., to Staff Manager, 42 Hans-crescent, S.W.1.

APPLICATIONS are invited for a thoroughly competent and experienced SIGNWRITER ARTIST for a large East Anglian Brewery. The successful applicant will work under the direction of the staff architect's department and is to be capable of completing an extensive programme each year which will include pictorial and other signs returned from licensed houses. State age, detailed experience and wage required. Applicants on the short list will be requested to submit bona fide examples of their pictorial work and produce suitable testimonials. Only first class applicants will be considered.—Box 1589, "The Builder."

ARCHITECTURAL DRAUGHTSMAN with experience in scale and full size working drawings for Joinery and Plasterwork. Some knowledge of Period decoration an advantage.—G. JACKSON & SONS, Ltd., Rathbone Works, Rainville-road, Hammersmith, W.6.

JUNIOR and SENIOR ARCHITECTURAL DRAUGHTSMEN Required for work in drawing office of multiple shop company. Interesting and varied post, involves a certain amount of travelling.—Please reply stating age, brief experience and salary required to Box 1540, "The Builder."

ARCHITECTURAL DRAUGHTSMAN Required. Full qualifications not as essential as ability to produce working drawings. Experience in Architect's office essential.—Apply in writing stating qualifications to OLIVER LAW & PARTNERS, F.F.R.I.B.A., 36 Ebury-street, S.W.1.

THE BRITISH DRUG HOUSES LTD. Require a DRAUGHTSMAN with general experience of building and constructional work. Five-day week. Pension and profit-sharing schemes.—Apply in writing stating age, experience and salary required, to the Staff Manager, Graham-street, City-road, N.1.

ARCHITECTURAL DRAUGHTSMAN (A.P.T. Grade I/IIB) Required by Ilford Limited in their Staff Architect's office at Ilford, Essex.—Apply in writing to Assistant Personnel Officer, ILFORD, Ltd., Ilford, Essex, quoting Ref. E/B/37.

DRABBLE CONSTRUCTION LIMITED
have vacancy for
QUANTITY SURVEYOR
to take over existing contracts in High Wycombe Area. Applicant will operate from Bletchley Office. Salary in accordance with experience *plus* bonus *plus* pension scheme *plus* car or car allowance.
Apply **Vicarage Road, Bletchley.**

QUANTITY SURVEYOR/ESTIMATOR to deal with enquiries, interim certificates and final accounts Required for Building and Civil Engineering Contractors. Applicant required to be car driver and aged under 40.—Apply by letter stating experience and salary required to F. HOLDOWAY & SONS, Ltd., Westbury, Wilts.

JUNIOR QUANTITY SURVEYOR. Intermediate Standard approaching Final, capable of carrying out final accounts and some Taking-off, Required for Home Counties office. Salary according to age and experience.—Please write giving full particulars to Box 906, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required in offices of Consulting Civil Engineer, S.W.1. Some experience of Building and particularly of Civil Engineering methods of measurement and general preparation of Quantities desirable. Good opportunity for young man to specialise under supervision in an expanding organisation.—Apply with details, age, experience and salary required to C. H. DOBBIE AND PARTNERS, 58 Victoria-street, London, S.W.1.

MANCHESTER — LONDON FIRM Require A.R.I.C.S., for taking-off and Final Account duties. Five-day week. Two weeks' holiday. This is a small office dealing with varied and interesting Building and Civil Engineering Work.—Box 1614, "The Builder."

JUNIOR BUILDING QUANTITY SURVEYOR Required for measuring work on housing and flat schemes in N.W. Kent and S.E. London projects. —Full particulars of experience, etc., to Box 1615, "The Builder."

SENIOR QUANTITY SURVEYOR. Applications are invited from qualified persons (preferably A.R.I.C.S.), fully experienced in Taking-off, final accounts, approximate estimates, etc. The post is superannuable, subject to medical examination. Five-day week in operation.—Applications, stating age, experience, qualifications and salary required to W. J. Reed, F.R.I.B.A., Chief Architect, CO-OPERATIVE WHOLESALE SOCIETY, Ltd., 99 Leman-street, London, E.1.

ASSISTANT QUANTITY SURVEYOR

required for important contract in West London outskirts.

Applicants should be between 24–27 years of age, preferably with a Higher National Certificate or a similar qualification.

Please send full personal details, past experience and salary required to

Box 1548, "The Builder"

ASSISTANT QUANTITY SURVEYOR Required by Estate Developers and Contractors.—Write giving details of training, experience, age and salary required to Box 1541, "The Builder."

QUANTITY SURVEYOR for site measuring and agreement of accounts. Permanent, pensionable. —Write to The Secretary, FITZPATRICK & SON (CONTRACTORS), Ltd., 455 Old Ford-road, Bow, London, E.3, stating age, experience, salary required, etc.

MANCHESTER—LONDON FIRM QUANTITY SURVEYORS Require young A.R.I.C.S., preferably just qualified, for interesting and varied work taking-off and Final Accounts.—Box 1542, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required for London office with knowledge of Working-up and site measurement. Five-day week.—Write stating age, experience and salary required, Box 1543, "The Builder."

COMPETENT QUANTITY SURVEYOR Required for Professional Office in Leicester. Good salary. Lunch Vouchers.—Box 992, "The Builder."

QUANTITY SURVEYOR, age 25-30, Required for West London office of Building and Civil Engineering Contractors. Applicants must have had experience of taking-off for all trades, measuring variations and preparing interim valuations and final accounts. Pension scheme in operation.—Write in confidence, giving details of past experience, age and salary required, Q. S. PERCY BILTON, Ltd., Stonefield-way, S. Ruislip, Middlesex.

QUANTITY SURVEYOR Required by progressive firm of Building Contractors in Hull. Must be experienced in the preparation of Schedules of Quantities, Interim Valuations, and Final Measurements. Salary commensurate with ability and experience will be paid to suitable applicant. A contributory pension scheme and free life assurance scheme are in operation.—Applications, giving details of age, experience, and salary required, in confidence, to Box 1544, "The Builder."

QUANTITY SURVEYORS' ASSISTANT, age 25-30, Required by Chartered Quantity Surveyors for work on site on Surrey-Sussex border—recently passed Final R.I.C.S. preferred. Good opportunity of advancement.—Reply stating age, qualifications and salary required to Box 1545, "The Builder."

EXPERIENCED QUANTITY SURVEYOR'S ASSISTANT Required by well known firm of Chartered Quantity Surveyors in Bloomsbury. Salary £1,000 to £1,250 per annum according to age and experience. L.V.s., 5-day week, overtime paid and Pension Scheme to Box 1546, "The Builder."

QUANTITY SURVEYORS, recently qualified or having passed R.I.C.S. Intermediate Required in professional office in West Riding of Yorkshire. The positions are permanent and pensionable with opportunities for paid overtime.—Write stating age, experience and salary required to Box 1547, "The Builder."

LAND SURVEYOR Required, capable of chain and theodolite surveys and assist in drainage layouts. —Write giving full particulars and salary required to Box 907, "The Builder."

SURVEYOR/ESTIMATOR.—A responsible permanent position is offered in surveying/estimating department handling contracts in London area from enquiry to final account. Applicants should have experience in site measuring, preparation of certificate valuations and final accounts, and be capable of estimating under supervision. Excellent opportunity for enthusiastic young man aged 25-30 to progress within the organisation. Holiday this year by arrangement.—Please apply in confidence stating age and previous experience to Box 926, "The Builder."

BUILDER'S SENIOR SURVEYOR Required by London Building Contractor to take charge of Department. Must be fully experienced with sound knowledge of site measuring, variations, interim valuations, final accounts, etc., and capable of working on own initiative. Excellent opportunity for keen young man for permanent position in expanding organisation. Write giving full details of age, experience, technical education, previous positions held and salary desired.—Box 1496, "The Builder."

AN opportunity occurs for a young and competent Builder's SURVEYOR to join a newly formed building department attached to an important and long established Civil Engineering Firm in North-West Kent. Splendid prospects for the right man. Salary according to experience.—Reply in confidence to Box 1498, "The Builder."

SITE SURVEYOR Required to take complete charge of all surveying duties on large R.C. Contract, Liverpool area. Subsistence or car allowance paid if resident away from this area.—Full details of experience, age and salary required to Box 1499, "The Builder."

MEASURING SURVEYOR Required for W.D. Schedule Works in Midlands. Must be willing to travel. Sound knowledge A.M. and W.D. Contract procedure essential. Reply giving details of experience, salary required, etc.—Box 1503, "The Builder."

COST SURVEYORS

Applications invited from experienced men age between 25 to 36 with training in building operations and quantity surveying. Costing would be an advantage and able to measure work in progress on site for new Costing procedure. These are interesting vacancies and will carry good terms and prospects for advancement to selected applicants. State age, training and past experience, and salary expected and address to **Personnel Manager, Wilson LOVATT & Sons Ltd., Clarence Street, Wolverhampton.**

BUILDERS' SURVEYOR Required. Must be capable of taking complete charge, under Director, of contracts from £5,000-£100,000 including dealing with variations and interim certificates, and settlement of final accounts.—Apply by letter giving details of experience, age and salary expected, to J. GARRETT & SON, Ltd., Cathles-road, Balham Hill, S.W.12.

BUILDING SURVEYOR Required by SPEIRS, Ltd., 88 Upper Richmond-road, Putney, S.W.15, with sound knowledge of site measuring and variation accounts. This is a permanent and progressive job. Good salary paid to man with energy and drive. London work.—Apply with full particulars and salary required.

SURVEYOR TAKER-OFF (Junior) Required in the Victoria Offices of the RICHARD COSTAIN GROUP, to undertake duties concerned mainly with Concrete work. Candidates aged 21-25, should have some experience of Taking-off, and a sound knowledge of building construction is essential.—Send details of age, qualifications and experience to Assistant Personnel Office, 111 Westminster Bridge-road, London, S.E.1.

MEASURING SURVEYOR experienced W.D. Schedule Required by Quantity Surveyor for Site Beds/Northants border. Holiday arrangements honoured. Age no bar, experience and integrity essential.—Box 1609, "The Builder."

BUILDING AND CIVIL ENGINEERING CONTRACTOR Requires SURVEYOR/ENGINEER as Assistant to Director. Full experience necessary in all Site Works, also Setting Out, Measuring, Accounts, Taking-off and preparing Bills of Quantity. Control of working to drawings and Specification. Contracts mainly Surrey, Sussex, Hants. Good prospects. Age, present salary and full details to Box 1616, "The Builder."

BUILDING SURVEYOR Required for general duties in Hospital Estates Office.—Apply in own handwriting stating age, qualifications, experience and salary required to G. Box 756, c/o WALTER JUDD, Ltd., 47 Gresham-street, E.C.2.

A PROPERTY SURVEYOR. MARTINS THE CLEANERS, Apperley Bridge Works, Bradford, Yorkshire, third largest U.K. Dry Cleaners with over 200 shops and a large Factory, due to expansion are creating this new post under the Property Manager. Duties will include responsibility for planning and arranging the building work for renovation, maintenance and development of all new and existing shop properties. Applicants should be aged 30-40 with experience in property surveying, renovation and maintenance, dealing with Local Government Officials, Contractors and Tradesmen. Professional qualifications desirable but not essential. Starting salary £1,000-£1,250 depending on age, qualifications and experience; contributory pension scheme, free accident insurance; car provided; assistance with removal expenses.—Apply in writing, stating age, education, qualifications, experience and positions held (with salaries) to the Personnel Officer.

SURVEYOR capable of site measuring and general building works, preparation of variations and agreement of Sub-Contractors' accounts.—Write full details in confidence to the Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans.

SURVEYOR Required by large Plymouth Building Contractors. Must be accustomed to working without supervision on interim valuations and final accounts, with possibly experience in estimating for smaller jobs. Permanent post with assistance towards housing for suitable applicant.—Full details of education, experience, positions held and approximately salary required to Box 1549, "The Builder."

BUILDING SURVEYOR Required for S.E. London Building Contractors, with experience of alterations, conversions, new work essential.—Apply in confidence stating age, experience and salary required, to Box 1550, "The Builder."

BUILDERS, SURVEYORS AND ESTIMATORS. Applications invited from young BUILDERS' TRADESMEN or BUILDER'S CLERKS who have studied Quantities to City and Guilds standard to fill vacancies in London Office of well-known organisation. Good salary, overtime, and pension scheme. Holiday arrangements honoured.—Box 1551, "The Builder."

EXPERIENCED BUILDING MAINTENANCE SURVEYOR Required in London Office of UNITED DAIRIES, Ltd.—Applications to be made to Chief Architect, 31 St. Petersburgh-place, Bayswater, W.2, stating age, previous experience and salary required.

WELL-KNOWN West England Builders Require SURVEYOR, fully experienced estimating, setting accounts. Permanency. Pension Scheme if suitable. Applications only from Experienced Surveyors stating salary, references. Strictly confidential. —Box 1552, "The Builder."

CONTRACTORS' SURVEYORS urgently Required N.W. London. Site measuring, Variations and Final Accounts. Pension scheme, holiday this year.—Write giving details of experience and salary required, Box 1553, "The Builder."

PAINTING SURVEYOR/SUPERVISOR Required for high class decorating and competitive painting contractor in S.W.1.—Reply stating age, experience and salary required. Bonus and Superannuation schemes operating. Box 1554, "The Builder."

BUILDING SURVEYOR or ARCHITECT Required, to take charge of Architectural Department in firm of Land Agents and Chartered Surveyors, in Provinces.—Apply Box 1555, "The Builder."

BUILDING SURVEYOR, aged 24-26, Required as ASSISTANT but with every opportunity for increasing responsibility on wide variety of Contracts. Applicants must have sound knowledge of quantities, preferably to Final City and Guilds standard and have experience in measuring and agreeing Sub-contractor's accounts, preparing interim valuations on Contracts and measuring for Final Accounts. Position is permanent, progressive and pensionable. Present holiday arrangements met.—Apply in writing to CHARLES R. PRICE, Kingsbury-road, London, N.W.9.

SURVEYOR experienced in measurement of Industrial Pipeworks Contracts Required for large contract in South Wales.—Apply, stating age, experience and salary required, to Box 1556, "The Builder."

ASSISTANT SURVEYOR

required

for General Surveying Department of expanding Contracting Organisation operating in Southern and Home Counties Area. The applicant is required to be in age range of 22 to 27 years old and to have experienced a sound technical training in the industry. The applicant will be required to work directly under Senior Surveyors in charge of different sections of the department. The position offers considerable opportunity for advancement to very senior positions in the Company. Please reply in confidence to :

Box 1569, "The Builder"

ASSISTANT Required for Surveyor's Department of progressive E. London Building Contractor. Permanent position for man experienced in measuring sub-contractors, valuations and variations. Write stating salary, age and experience.—Box 1497, "The Builder."

ASSISTANT BUILDING SURVEYOR Required for preparation of Final Accounts and interim certificates, etc., able to work with minimum supervision. Position permanent.—Apply in writing stating age, experience and salary required to BOSWORTH & CO. (CONTRACTORS), Ltd., Quorn-road, Nottingham.

CHARTERED QUANTITY SURVEYORS Require QUALIFIED ASSISTANT in their Manchester office.—Box 1624, "The Builder."

ASSISTANT with surveying and estimating experience Required for expanding Minor Works Department of large Plymouth Contractors. This is a progressive and permanent position for a person with drive and initiative.—Full details of education, experience, positions held and approximate salary required to Box 1557, "The Builder."

ASSISTANT SURVEYOR/ESTIMATOR Required in Small Works Dept. of Westminster Contractor. Capable of preparing estimates from drawings. Excellent opportunity for young man in a progressive Company. Bonus and Superannuation scheme in operation.—Write with full particulars to Box 1559, "The Builder."

OLD established Chartered Quantity Surveyors have a vacancy for QUALIFIED ASSISTANT in London and vacancies for TAKERS-OFF and MEASURING SURVEYORS on long term provincial contract. Salary based on age and experience up to £1,250. Holiday arrangements respected.—Apply stating age, experience and salary required to Box 1560, "The Builder."

WELL-known firm of Chartered Quantity Surveyors Require ASSISTANTS of R.I.C.S. final standard for large site contract in London. Good prospects for advancement.—Apply stating age, experience and salary required to Box 1561, "The Builder."

ASSISTANT BUILDING SURVEYORS Required. Opportunity young men to widen their experience under supervision of Senior Surveyors in an expanding Company.—Apply Personnel Manager, FORD & WALTON, Ltd., Walton House, Warton-road, E.15.

LONDON Chartered Quantity Surveyors have vacancy for Junior to enter profession. Minimum standard five G.C.E. subjects.—Write stating age and details of education to Box 1562, "The Builder."

Experienced

ASSISTANT TAKERS-OFF

required at Head Office of

GEORGE WIMPEY & CO., LIMITED

Write in confidence, stating age, training, past experience and salary required to :

Establishment Officer,
27, Hammersmith Grove, London, W.6.
Ref. 704.A.

APPLICATIONS are invited for the following posts: TAKER-OFF, membership of R.I.C.S. desirable but not essential. ASSISTANT TAKER-OFF, capable of working with a minimum of supervision. SENIOR WORKER-UP, a fully experienced man capable of taking charge of working-up section. ASSISTANT WORKER-UP, familiar with simple abstracting and trade terminology. The posts are pensionable and a five-day week is in operation.—Reply stating age, training, experience and salary required to G. S. Hay, F.R.I.B.A., Chief Architect, CO-OPERATIVE WHOLESALE SOCIETY, Ltd., 1 Balloon-street, Manchester, 4.

GOOD promotional prospects and annual pay review offered by large London Contractors to ASSISTANT TAKERS-OFF. Applicants must have integrity, ability, initiative, and a good knowledge of Standard method of Measurement. Holiday arrangements honoured.—Write Box 1564, "The Builder."

CAPABLE TAKER-OFF Required in Quantity Surveyor's office in Westminster, with experience in addition of carrying out valuations for certificates, measuring on site and preparing final accounts. Superannuation scheme, luncheon vouchers and increased payment when working overtime.—Write stating age, experience and salary required to Box 1511, "The Builder."

TAKERS-OFF and MEASURING SURVEYORS Required by London Chartered Quantity Surveyors for permanent staff. Five-day week.—Write stating age, experience and salary required to Box 929, "The Builder."

CHARTERED Quantity Surveyors, W.C.2, have vacancies for TAKERS-OFF, permanencies offered to suitable candidates. Pension and Bonus Schemes in operation. L.V.s given.—Reply in writing stating age, experience and salary required to Box 1565, "The Builder."

WANTED for medium size office, S.W.1.—JUNIOR TAKER-OFF, age 22-25, also qualified man, 25 or over. Luncheon vouchers. State salary required. —Box 1512, "The Builder."

EXPERIENCED TAKERS-OFF/MEASURING SURVEYORS Required by Chartered Quantity Surveyors for large site contract in South Wales. A.R.I.C.S. preferred.—Write, stating age, experience and salary required to Box 1566, "The Builder."

EXPERIENCED TAKER-OFF/MEASURING SURVEYOR Required in North of England for a large site Contract. Good salary for suitable man. —Please reply, stating age and experience to Box 1567, "The Builder."

CHARTERED Quantity Surveyor, W.C. district, Requires TAKER-OFF, must be quick and accurate. Salary according to experience. 5-day week. Luncheon vouchers.—Write stating age, experience and salary required, reply Box 1513, "The Builder."

TAKER-OFF Required in Branch Office in Preston, Lancs.—Apply A. S. WILSON AND PARTNERS, 8 Storeys-gate, Westminster, S.W.1.

ASSISTANT TAKER-OFF (final standard) Required by F. S. SNOW & PARTNERS. Five-day week, Luncheon vouchers, superannuation.—Apply in writing to 87 Charing Cross-road, London, W.C.2, stating age, experience, qualifications, and salary required.

COMPETENT TAKER-OFF Required in London Chartered Quantity Surveyor's office. Apply stating age, experience, qualifications and salary required to Box 957, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers.—Write stating age, experience and salary required, to Box 991, "The Builder."

CHARTERED QUANTITY SURVEYOR Requires ASSISTANT TAKERS-OFF for housing, hotels, factories and other works, Head Office, Southsea, Hants.—Box 1563, "The Builder."

WORKER-UP Required in South Wales for a large site contract by a firm of Chartered Quantity Surveyors.—Write stating age, experience and salary required to Box 1500, "The Builder."

LONDON QUANTITY SURVEYOR (City) Requires an experienced and competent WORKER-UP able to deal with preparation of Bills and Final Accounts under own initiative. Applicant will be required to take complete control and to be one who does not at the moment desire to be a Taker-off. Remuneration to be agreed. 5-day week.—Reply stating age and experience to Box 1596, "The Builder."

SENIOR WORKER-UP with Taking-off experience Required for small professional office in Middlesbrough. Good prospects, luncheon vouchers.—Reply stating age, experience and salary required, Box 1619, "The Builder."

JUNIOR WORKER-UP, with eighteen months' experience in the profession, Required from next September by London Chartered Quantity Surveyors. —Apply, giving details of education, experience and salary required, to Box 1568, "The Builder."

CAPABLE WORKER-UP Required in London Chartered Quantity Surveyors' office. Appointment with prospects of advancement according to capability. Apply in writing stating age, office and examination experience and salary required to Box 956, "The Builder."

WORKER-UP with five years' professional experience Required by F. S. SNOW & PARTNERS. Five-day week, luncheon vouchers, superannuation.—Apply in writing to 87 Charing Cross-road, London, W.C.2, stating age, experience, qualifications and salary required.

WORKER-UP Required for permanent position in London Quantity Surveyors' office, Holborn area. Five-day week. Pension and Life Assurance scheme.—Write, stating age, experience and salary required. Own staff notified.—Box 1569, "The Builder."

EXPERIENCED WORKER-UP Required in professional office in Westminster.—Reply, giving age, experience and salary required, etc., to Box 1570, "The Builder."

SENIOR WORKER-UP Required to be responsible to the Chief Worker-up for superintending the working-up of Final Accounts. Salary will be in accordance with age and experience and commensurate with the responsibility of the position.—Please reply, stating age, experience and salary requested, to Box 1571, "The Builder."

EXPERIENCED PERMANENT WORKER-UP Required by Chartered Quantity Surveyors close Victoria Station. Pension Scheme. Luncheon vouchers. 5-day week.—Write giving full particulars to Box 1572, "The Builder."

LABORATORY ASSISTANT with experience of soil mechanics, preferably including soil stabilisation, by an expanding specialist firm. Excellent opportunity for a young man who wants to grow with us, is willing to work hard and accept some travel. Ability to use a level an advantage.—Apply T. PROJECTS, Ltd., 4 Lion-street, Kidderminster.

MYTON LIMITED (a member of the Taylor Woodrow Group) Require a SENIOR PLANNING ENGINEER, with experience in planning multi-storey buildings with deep foundations. Progressive appointment with Pension Scheme.—Replies, giving full details of experience, etc., in confidence, marking envelope "Application," to the Director and General Manager, MYTON, Ltd., "Western House," Western-avenue, Ealing, London, W.5.

STRUCTURAL ENGINEER

required in MODERN FACTORY, situated in pleasant surroundings in Buckinghamshire, working on development of PRESTRESSED CONCRETE.

The vacancy offers an opportunity for a qualified engineer interested in this field to join an expanding company in a permanent and progressive position.

Applications giving full details of age, experience, and indication of salary required should be sent in strict confidence to **Box 1573, "The Builder"**

SITE ENGINEERS Required immediately for Contracts in London area and Home Counties. Good prospects for young men.—Write in confidence, The Secretary, FITZPATRICK & SON (CONTRACTORS), Ltd., 455 Old Ford-road, Bow, London, E.3, stating age, experience, salary required, etc.

ASSISTANT HEATING ENGINEER Required for the design department of Jarvis Heating Ltd.—Apply stating age, qualifications, experience and salary required to Vaughan-road, Harpenden, Herts.

ASSISTANT CLERK OF WORKS Required August, 1959 for Alnwick Castle Estate, Northumberland. Applicants, preferably under 30, must have experience of improvements to Farm Buildings and Cottages, including plan drawing and specifications. Modernised house available.—Apply Agent, ALNWICK CASTLE ESTATE, Alnwick, Northumberland.

CLERK OF WORKS Required for Laboratory project near Manchester. Commencing July, 1959, duration approximately 15 months. Previous experience of laboratory work essential. Salary by arrangement. Interviews London or Manchester.—Write Box 909, "The Builder."

CLERK OF WORKS Required end of July for a new departmental store to be erected in Basingstoke for the Basingstoke Co-operative Society Ltd. Salary £17 a week. Contract approximately 15 months. Candidates must have a thorough knowledge of the building trade, be conversant with drawings and Bills of Quantities, competent to supervise works, maintain records and prepare weekly reports. —Application, giving age, experience and references, to: W. J. Reed, F.R.I.B.A., Chief Architect, C.W.S. Ltd., 99 Leman-street, London, E.1.

CLERK OF WORKS Required for work on new science building. Salary not less than £850 a year; period two years.—Apply by letter, giving age and full particulars of experience, to the Registrar, THE UNIVERSITY, Leicester.

SENIOR ESTIMATOR

age 28/45 required for West End Offices of National Contractors. Considerable experience of all types tendering needed and accustomed to preparing price analysis and build-up. Good salary and first class opportunities for progress for right man. Assistance with housing will be given if necessary. Pension Scheme. Reply Box No. 1574, "The Builder".

SENIOR ESTIMATOR Required by old established South-West Essex Contractors. Must be used to all classes of construction. Top salary to suitable man.—Write giving full details to Box 1600, "The Builder."

ESTIMATOR Required by Exhibition Contractors. Age 25-35. Salary £800-£900 per annum, according to experience. Pension scheme. Existing holiday arrangements met.—Write "Confidential," BECK & POLLITZER CONTRACTS, Ltd., Universal House, Southwark Bridge, S.E.1.

ESTIMATOR/SURVEYOR Required for small and medium works by West London Building Contractors in and around West London and Middlesex areas. Must be experienced in this class of work and capable of doing accounts if required.—Write stating age, experience and salary required to Box 1504, "The Builder." Permanent job to right man.

ESTIMATOR/SURVEYOR Required by Ealing firm of Builders and Contractors.—Write stating age, experience and salary required to Box 1505, "The Builder."

CIVIL ENGINEERING CONTRACTORS Require live, young ASSISTANT in Estimating Department to handle enquiries for materials, sub-contracts, etc., on a wide range of tenders. Some experience of simple taking-off and billing for small contracts would be an advantage.—Apply with full details to Personnel Manager, MEARS BROS. (CONTRACTORS), Ltd., 154 Sydenham-road, S.E.26.

BUILDING SENIOR ESTIMATOR

required for competitive tendering BRISTOL area. Applicants must have had experience in estimating for medium and large Building Contracts of varied types.

Good salary and conditions—pension scheme.

Apply, giving full details to :—
Robert Watson & Co. (Constructional Engineers) Limited,
Filton Office,
Filton, BRISTOL.

ASSISTANT ESTIMATOR Required by West End Builders with experience of alterations and decorations. — Write stating age, experience and salary required to Box 1592, "The Builder."

ESTIMATOR Required for pricing Builders' Merchants Heavy Materials quotations. Salary £11-£12 p.w., according to experience. Pension scheme. Staff Cafeteria.—Write full details age and experience to the Secretary, BROAD & CO., Ltd., 4 South Wharf, Paddington, W.2.

PLASTERING Specialists have a vacancy for ASSISTANT ESTIMATOR and MEASURING SURVEYOR, resident in London. Contributory Pension cheme operating.—Apply stating age, experience and salary required to PLASTERING, Ltd., Concanon-road, Acre-lane, Brixton, London, S.W.2.

ESTIMATOR Required for the London office of a National flooring company. Capable of estimating for linoleum, rubber, thermo plastic and vinyl types of floors.—Please write stating qualifications and salary required, Box 1632, "The Builder."

BUILDING ESTIMATOR Required for Building Contractor in Leytonstone area, for contracts from £5,000 to £100,000. Must be able to prepare estimates from Bills of Quantities or Specification.—Please reply, giving full details of experience and salary required to Box 1575, "The Builder."

EXPERIENCED ESTIMATOR/SURVEYOR Required by medium-size builders, S.E. London.—Full details of experience, age and salary required to Box 1514, "The Builder."

JOINERY ESTIMATOR. An experienced Joinery Estimator Required to handle building and housing estimating work.—Write full particulars to RUTHERFORD, GEAKE & CO., Ltd., Hanworth Trading Estate, Feltham, Middlesex.

BUILDERS' ESTIMATOR and TAKER-OFF/DRAUGHTSMAN. Old-established East London Company. Good salaries offered for these two vacancies. Write giving full details.—Box 1515, "The Builder."

ESTIMATOR with ability to price all types of joinery required by Manufacturers, Cheshire. Excellent opportunity for person with initiative. Pension scheme.—Write full details of training and experience to Box 1576, "The Builder."

ESTIMATOR-SURVEYOR wanted by medium-sized old-established firm of Building Contractors engaged on all types of work. Applicants must be experienced in preparing estimates from bills of quantities and from drawings and specifications; able to handle contracts from enquiry to final account. House available.—Apply, giving age, experience and salary required, to E. C. HUGHES, Ltd., Albion Works, Wokingham, Berks.

ESTIMATOR/SURVEYOR Required, experienced in small works and medium-sized contracts.—Full details of experience, age, etc., to C. JENNER & SON, Ltd., 11 North-street, Ashford, Kent.

J. M. JONES & SONS LTD.
require
ASSISTANT CONTRACT MANAGERS

for groups of contracts in areas. Must be knowledgeable of all forms of mechanical aids to production and have had a wide variety of experience. Progressive pensionable appointment. Apply, stating age, details of general education and technical education stating qualifications if any; experience; names of previous employers and full details of present appointment and commencing salary required, to the Secretary, Highway Works, Maidenhead.

A CONTRACTS MANAGER is Required for Small Works Department of a firm of Building Contractors in West London. He must be capable of inspiring confidence in customers and securing new business and making on-the-spot estimates where necessary. He must be able to organise and supervise work in progress on a number of small contracts the maximum value of any one contract being £20,000. He must be capable of inspiring loyalty in Office and Site Staff. Candidates should be between 30 and 40 and have practical knowledge and sound qualifications in building construction, quantities and estimating. The salary will be in the range of £1,000 p.a. depending on qualifications and experience, and with excellent prospects.—Box 1587, "The Builder."

CONTRACT MANAGERS and GENERAL FOREMEN of proved merit for large-scale work in North and South England. Good salaries and conditions.—Apply with full details of previous experience (which will be treated in strict confidence) to Box 1618, "The Builder."

CARLTON CONTRACTORS LIMITED

Head Offices : Epsom

require

ASSISTANT CONTRACTS MANAGER

to work under Director, on contracts involving an annual turnover of approximately £10,000,000. Applicants must have a first-class record of proved experience on large Housing Schemes, Flats Developments, and general building works of magnitude.

GENEROUS SALARY AND BONUS

This is a permanent, pensionable appointment, presenting an excellent opportunity for a man with the requisite qualifications, initiative, drive and integrity, to join a vigorous and growing organisation. Directorship can be achieved after satisfactory service. Comprehensive particulars of experience, present salary, etc., in strict confidence to :

C. A. Rance, Director, Carlton Contractors Limited, Epsom, Surrey.

BOVIS LTD. have a number of vacancies for ASSISTANTS in their Contract Managing Department. Applications are invited from men between 25 and 30, having suitable qualifications and some experience.—Reply giving full details to The Assistant Managing Director, BOVIS, Ltd., 1 Stanhope-gate, London, W.1.

CONTRACTS MANAGER Required for flat and housing estates, borders of Berkshire, Middlesex and Surrey. Permanent position. Write stating age, salary and experience.—Box 977, "The Builder."

GENERAL MANAGER

for the HOUSE BUILDING DIVISION of well-known established Civil Engineering and Building Contractors.

Applicants should preferably be tradesmen and have already had some years of comparable responsibility and be in possession of a sound and comprehensive knowledge of modern building practice and management.

Commencing salary while being commensurate with the responsibility of the position, will be finally determined after taking into account the vigour, personality and past experience of the applicant selected.

Please write to Box 1577, "The Builder," in the first instance for Application Form, quoting reference GM/3.

OLD-ESTABLISHED (LONDON) FLOORING CONTRACTORS
require
TRAINEE MANAGER

Age approximately 23/30. Excellent prospects and interesting work with good commencing salary for keen young man with drive and initiative. Previous flooring experience not essential.

Please write in strictest confidence, with details of age and past experience, to

Box 1516, "The Builder"

TECHNICAL REPRESENTATIVE with structural experience Required for London area for sale of open steel flooring, hand-railing and light structural work.—Apply stating age and past experience to BETTLES & SONS, Ltd., Stafford-road, Fordhouses, Wolverhampton.

TECHNICAL REPRESENTATIVE, well introduced to Architects, Building Contractors, etc., Required by roofing and insulation department, to cover Midlands area.—Applicants state age, experience and present salary to RUDDERS AND PAYNES, Ltd., Aston, Birmingham 6.

FLOORING REPRESENTATIVE. Senior man to assist London Manager, must have experience of flooring or closely allied trade.—Write S. H. WARE & CO., Ltd., Caversham House, Reading.

FLOORING CONTRACT SUPERVISOR/REPRESENTATIVE Required to join staff of expanding company. Good prospects.—Write full details Box 1620, "The Builder."

GOSLETT'S, of Charing Cross-road, have a vacancy for a SALESMAN in their considerably extended and modernised showrooms. Applicants must have good knowledge of Sanitary, Heating, Kitchen Equipment and Fireplaces. Salary and incentive bonus.—Write full details to ALFRED GOSLETT & CO., Ltd., 127-131 Charing Cross-road, London, W.C.2.

WANTED: REPRESENTATIVE for correspondence abroad; high earnings. Instructions in writing.—Write: FORTUNA PUBLISHING CO., Vienna 1/8, Postfach 49.

JUNIOR CLERK Required for West London Builders' Office. Good opportunity for young man.—Box 1630, "The Builder."

SHORTHAND TYPIST Required by Building Contractors, Holborn district. Hours 9 a.m. to 5 p.m. 5-day week. Tel.: CHA 7940. Ref. DL for appointment.

COST CLERK Required for medium-sized Contractor's Head Office. Must be conversant with all aspects of Costing and have general all-round experience of Builder's Office routine.—Apply in writing to E. S. GATES Ltd., Chalfont Station-road, Amersham, with full details.

COST CLERK, West End Builders, experienced. Small works and jobbing.—Write stating age, experience and salary required to F. W. BARNARD, Ltd., 1-2 Babmaes-street, Jermyn-street, S.W.1.

CLERK (male 20-35 years) Required for Invoice and Materials Department of well known Building Contractors. Knowledge of building materials essential. Pension scheme after satisfactory trial period. Existing holiday arrangements honoured.—Details of experience, age, etc., to Office Manager, TERSONS, Ltd., 4 Dollis-park, Finchley, London, N.3.

CUBITTS

OPPORTUNITIES EXIST WITH
HOLLAND & HANNEN AND CUBITTS
(GREAT BRITAIN) LTD.,

for **TRADESMEN** between 21-26 years of age who wish to equip themselves with the basic essentials of contract management.

Vacancies occur in the Main Building Department for **COST SURVEYORS** and these positions could be filled by those who have taken the Ordinary or Higher National Certificates.

A two-year term in this capacity will give suitable candidates experience of modern office and site procedure, site measuring and costing, contract cost control, and up-to-date construction methods and techniques, which form an essential part of training for the first stages of site supervision.

Will interested applicants please reply in writing, giving full details to

Personnel Manager,
1, Queen Anne's Gate,
London, S.W.1.

BONUS MEASURING AND INCENTIVE PAYMENT SCHEMES. A vacancy occurs in the Building and Maintenance Department of a large North London manufacturing concern for a suitable qualified man with experience in the application of incentive payment schemes to a variety of work carried out by the department. An adequate salary in line with qualifications and experience is offered. Applicants are invited to submit details of experience and positions held to Box 1610, "The Builder."

J. GERRARD & SONS, Ltd., Require AGENTS with experience in large building works.—Apply in writing, stating age, qualifications, experience and salary required, to Pendlebury-road, Swinton.

AGENTS Required by Manufacturer and Merchants of builders' brassfoundry. Only men with experience and good connections considered. Generous commission.—Box 1578, "The Builder."

J. GERRARD & SONS, Ltd., Require GENERAL FOREMEN with experience in building work.—Apply in writing, stating age, experience and salary required to Pendlebury-road, Swinton.

EXPERIENCED GENERAL FOREMEN Required for new Estates in Home Counties.—Write with full details to THE BUNTING CONSTRUCTION CO., Ltd., 73 Acre-lane, Brixton, S.W.2.

GENERAL FOREMEN, North London and Hertfordshire areas. Must be fully experienced, with good references.—Apply in own handwriting to DAVID CHASTON Ltd., Building and Civil Engineering Contractors, Hoddesdon, Herts.

SUPERVISOR/GENERAL FOREMAN Required by N.W. London Contractor. Able to do complete site supervision, setting-out, levels, roads, complete drainage. Must be well experienced in housing estates and factories. Permanency and advancement available to good man. Write stating age, experience and availability and if able to drive.—Box 1518, "The Builder."

AGENTS/GENERAL FOREMEN, preferably C. and J., Required by London firm of Building and Civil Engineering Contractors for Contracts up to 500,000. Must be experienced in all aspects of the trade, possess drive and initiative and up-to-date knowledge of mechanical plant management. Participation in Company's Bonus and Pension schemes offered to successful applicants.—Apply in writing stating experience and salary required to Box 1602, "The Builder."

SENIOR GENERAL FOREMEN

IF YOU ARE A SENIOR GENERAL FOREMAN AND INTERESTED IN WORKING FOR A PROGRESSIVE NATIONAL BUILDER AND PREPARED TO WORK ANYWHERE IN THE BRITISH ISLES,

then write, giving your age and full experience over the last 10 years, stating salary required, to

Box 1579,
"The Builder"

SUPERVISORY/SURVEYOR. Energetic man Required for expanding housing department, to organise works, carry out negotiations with trades sub-contractors including strict supervision to completion. Experienced persons only need apply for position with excellent prospects. Pensions scheme in operation.—Apply giving full particulars to Housing Director, PERCY BILTON, Ltd., 113 Park-street, W.1. Telephone: MAYfair 8240.

SITE FOREMEN Required for private enterprise housing estates; must be accustomed to handling sub-contractors in all trades. Experienced men only capable of producing and finishing first class dwellings need apply.—Write, giving full particulars (of age and experience) to Housing Director, PERCY BILTON, Ltd., 113 Park-street, W.1.

OUTSIDE SUPERVISOR Required for West End Builders used to handling number of small Contracts.—Write stating age, experience and salary required to Box 1593, "The Builder."

GENERAL FOREMAN Required for good class housing estate in Bucks area. Previous experience in this class of work essential, including ability to set out estates and lay roads and sewers.—Apply in writing, PROWTING, Ltd., 127 High-street, Ruislip, Middlesex, stating age, salary and experience.

JOBBING AND MAINTENANCE SUPERVISOR Required, London N. and N.W. areas. Own car essential. Permanency and superannuation for right man.—Reply to Box 1594, "The Builder."

GENERAL FOREMAN Required by national firm of Building and Civil Engineering Contractors for private housing estates in the Southampton and Reading areas.—Applications should state age, experience and salary required to Box 1595, "The Builder."

GENERAL FOREMAN Required for housing contract in Harlow (Essex) area. Must be thoroughly experienced in high-class work and able to complete work to a tight programme.—Apply Box 1621, "The Builder."

ASSISTANT FOREMAN Required for expanding firm of soil stabilisation specialists. Applicants should be tradesmen, have held supervisory posts and be able to use a dumpy level. Excellent opportunity for man not afraid of hard work and prepared to travel.—Apply T. PROJECTS Ltd., 4 Lion-street, Kidderminster.

CONTRACTS SUPERVISOR Required for Contracts up to £500,000, London and Home Counties. Only applicants possessing first class experience, drive and initiative need apply. Successful applicant will be invited to join Company's Bonus and Pension schemes. Car provided. — Apply in writing, stating experience and salary required to Box 1603, "The Builder."

SITTINGBOURNE, KENT

GENERAL FOREMAN

required for reinforced concrete and brick construction Contract. Full knowledge and experience in quality control of concrete and formwork essential. Knowledge of M.O.W. requirements an advantage.

Salary—range £800-£900 per annum plus production bonus.

Apply stating age, trade and experience.

Box No. 1580 "The Builder"

GENERAL FOREMAN Required by medium size Westminster Contractor. Experience in new and alteration works up to value of about £100,000. Good organiser with appreciation of modern methods and approach. Bonus paid on contract results.—Write giving full particulars of experience, age and salary required, Box 1604, "The Builder."

GENERAL FOREMAN Required for major Building Contract.—Apply stating experience, age and salary required, THE DEMOLITION & CONSTRUCTION CO., Ltd., Mitcham-road, Croydon.

GENERAL FOREMAN Required for Reading area with at least five years' previous experience of Housing Estate work.—Write giving full particulars of experience to JAMES T. COOK & SON, Ltd., 74-76 London-street, Reading, Berks.

GENERAL FOREMAN Required for important projects in South Oxfordshire. Applicants must be experienced in controlling all aspects of large building and public works contracts, and must be capable of completing work to programmed schedules. The post offered is permanent and assistance with housing could be provided.—Reply in writing stating age, and details of previous experience to WALDEN & SON (HENLEY), Ltd., Empstead Works, Henley-on-Thames.

GENERAL FOREMAN

required
to take control of new traditional housing contract in Ealing Borough Area. The position offered is with an expanding Contracting Organisation offering possibilities of future advancement. Applicant should have a sound all-round knowledge of trades, and be capable of taking part in, and working to, a complete modern method of pre-planned control. Apply in confidence to :

Box 1581, "The Builder"

EXPERIENCED GENERAL FOREMAN Required for housing sites South London area. Top salary and bonus to first-class able man.—Write giving full particulars to Contracts Manager, A. A. STUART (GLASGOW), Ltd., 10 Upper Grosvenor-street, W.1.

GENERAL FOREMEN. Contractors would like to receive particulars from good GENERAL FOREMEN for flats and housing contracts, Southern Counties, starting near future.—Box 994, "The Builder."

ASBESTOS Sheeting, Thermal Insulation Lining. SUPERVISOR Required, must be fully experienced in running Contracts and Operatives, able to take quantities and read steelwork drawings.—Write in confidence giving all particulars of experience, salary required, references, etc., to Roofing Director, E. H. SMITH (WESTHAVEN), Ltd., Sherbourne-road, Acocks Green, Birmingham 27.

GENERAL FOREMAN Required, experienced in reinforced concrete work for multi-storey block of flats in the City, carpenter preferred.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

CARPENTER Required. Regular job. Good rate to right man.—Box 1519, "The Builder."

OLD-ESTABLISHED Builders (S.W.1. district) Require JOINER for first-class jobbing as required. Older men not objected to if active work continues.—Apply Box 1588, "The Builder."

MAINTENANCE CARPENTER AND JOINER wanted for North London Factory.—Write to Box 1605, "The Builder."

WORKING CARPENTER with good experience private housing estate, Required as FOREMAN over all trades. Excellent prospects; accommodation available, two-bedroomed maisonette. Banbury, Oxon.—Box 1623, "The Builder."

OVERSEAS APPOINTMENTS

Prepaid rate, 24 words, 7/6; additional 6 words, 1/6. Box number, including Forwarding Replies, 1/6.

MELBOURNE, AUSTRALIA
Experienced Architectural
DRAUGHTSMEN

aged 25/35 with at least 7 years' experience, mostly on industrial work, required for 3-year contract. Fares paid. Commencing salary £A1,500 rising to £A1,600 and £A1,700, plus overtime. Annual bonus. Interesting work with one of the leading Australian Industrial Architects.
Box No. 1582, "The Builder"

QUANTITY SURVEYOR Required for office in Persian Gulf. Salary and allowances up to £1,700. No local income tax at present. Accommodation provided. Free medical attention. Single man preferred.—Reply stating age and experience to Box 974, "The Builder."

CHARTERED QUANTITY SURVEYOR Required for Branch Office in West Indies. Post is one of responsibility with good opportunities for right man. Salary according to experience and capabilities.—Full details to Box 995, "The Builder."

TAYLOR WOODROW Require ASSISTANT QUANTITY SURVEYORS. Applicants should be prepared to work for the Taylor Woodrow Group overseas, after serving an initial period in the U.K. —Please write in detail to the Personnel Manager, TAYLOR WOODROW SERVICES, Ltd., Western House, Western-avenue, London, W.5.

SENIOR and ASSISTANT MEASURING SURVEYORS, SETTING-OUT ENGINEERS and GENERAL FOREMEN for large-scale building and civil engineering work overseas. All applications will be treated in strict confidence.—Write in first instance to Box 1617, "The Builder."

GENERAL FOREMEN Required by Taylor Woodrow for both building and civil engineering works overseas. Applicants will be required to work for the Taylor Woodrow Group in the U.K. pending overseas posting. Good salary, free furnished accommodation, etc.—Apply Personnel Manager, TAYLOR WOODROW SERVICES, Ltd., Western House, Western-avenue, London, W.5.

SOUTHERN RHODESIA (preferably Salisbury). Young married CHARTERED QUANTITY SURVEYOR (A.R.I.C.S.), qualified 1956, Requires responsible position with professional firm. Available to sail late 1959.—Box 1510, "The Builder."

THE SITE SURVEY COMPANY
BLACKHEATH, S.E.3. Tel.: LEE Green 7444-5
Fully equipped to undertake urgent surveys in any part of the country and abroad. Specialists in ½" scale detailed surveys for extensive city development areas.

SERVICES OFFERED

Minimum 7s. 6d. (24 words)
Each additional 6 words 1s. 6d. Box number, Including Forwarding Replies, 1s. 6d.

HOUSING Estate Developers who require PRE-BUILDING SALES AT ENHANCED PRICES are invited to write J. F. P. ASHE, 40 Egerton-gardens, S.W.3.

LIVE, quick-working, SURVEYORS (Incorporated) available for Bills of Quantities, valuations, final accounts, surveys, Schedules of Dilapidations and Condition. West End and Woking Offices.—Box 1631, "The Builder."

QUALIFIED QUANTITY SURVEYORS with own Central London Office offer assistance to the profession.—Tel.: CHAncery 4246/7.

FELLOW CHARTERED QUANTITY SURVEYOR. 25 years' experience in West Country, offers services to the profession for preparation of Bills of Quantities, Interim Valuations, Final Accounts.—Box 1520, "The Builder."

50 PER CENT. FEE if unsuccessful in pricing your Bill of Quantities or Preparing Estimates from Plans/Specifications by qualified ESTIMATOR/SURVEYOR.—Write for Charges to R. G. B. & PARTNERS, 59 Bartholomew-close, London, E.C.1.

SUCCESSFUL PUBLIC RELATIONS AND SALES PROMOTION COMPANY with high-level connections in the Building Industry invite enquiries from Contractors, Specialist Sub-contractors or Suppliers interested in obtaining new business. —Box 998, "The Builder."

FULLY EXPERIENCED IN ALL BUILDING AND ARCHITECTURAL WORK, I AM WILLING TO UNDERTAKE :

DESIGNS, WORKING DRAWINGS DETAILS, SURVEYS, SPECIFICATIONS PERSPECTIVES AND MODELS.

JUST TELEPHONE WALLINGTON 9883 (near Croydon) and I will call anywhere and take your instructions.

CONTRACTOR'S ESTIMATES, Building and Civil Engineering; competitive pricing at current rates. —AMALGAMATED BUILDING SERVICES, 170 Bridge-road, Chessington. 'Phone: Epsom 4255.

BUILDERS' ESTIMATES accurately prepared from Bills of Quantities, plans and specifications. Prompt, efficient service.—VICTOR H. FERN, 21, Tettenhall-road, Wolverhampton. Telephone Wolverhampton 24406/7.

BUILDERS' ESTIMATES accurately prepared from Valuations and Final Accounts. Over 30 years' reliable service. Moderate Terms.—SURVEYOR, 73 New Bedford-road, Luton, Beds. 'Phone: Luton 8077.

PROFESSIONAL SURVEYOR offers services Taking-off, Bills of Quantities, Pricing, etc.—Write, 3 High-street, Cheam, Surrey.

LANGTON SECRETARIAL SERVICES LTD.
St. Stephen's House,
Cannon Row,
Westminster, S.W.1.
Tel: TRAfalgar 1332
DUPLICATING: from Postcard to Brief size.
TYPEWRITING: Manuscripts, theses, letters, etc.
TRANSLATIONS: All European languages.
Moderate Charges. Expert Attention. Quick Delivery

QUALIFIED QUANTITY SURVEYOR can accept commissions from the profession for the preparation of Bills of Quantities; Estimates; Site Measuring, and Final Accounts.—Box 1521, "The Builder."

LONDON CHARTERED QUANTITY SURVEYOR offers services to the profession.—Write Box 1583, "The Builder."

PUBLIC relations and invitations to Tender obtained for main building contractor in London area. Long experience and wide professional field.—Box 1522, "The Builder."

COMPREHENSIVE service offered in surveying, valuations, final accounts, field surveys and estimating. London and Home Counties.—Please reply by letter to CONTRACTORS' SURVEYING SERVICE, 2 Colville-road, London, W.11.

TWO experienced WORKERS-UP available on free-lance hourly basis. Willing to work long hours. London area preferred. Fully mobile.—Box 1523, "The Builder."

BUILDERS' WAGES & JOB COSTING CALCULATIONS.

Adopt the "One Chart" Ready-Reckoner Tables for Ease, Speed and Efficiency. Choose from: (a) SHORT'S LABOUR COSTING CHART. Any District England/Wales and Scotland. Complete tables at Authorised Wages Rates. (b) EXTRA TABLES for adding columns at other rates if required. (c) NEW "SPECIAL RATES CHART" (tables compiled to order at your specified rates) to suit requirements not covered by (a). Full details from Sole Publishers :—

G. & H. SHORT, (Dept. B),
39 Lockaway Road, Milton, Southsea, Hants.

SITUATIONS WANTED, ETC.

Minimum charge 3s. (24 words).
Each additional 6 words, 9d. Box number, including Forwarding Replies, 1s. 3d.

ARCHITECT, seven years' experience, wants job on site. Anything considered.—C. HIGGINS, 4 Russell-road, London, W.14

PROVIDENT INSTITUTION OF BUILDERS FOREMEN and CLERKS OF WORKS
(established 1842)
CARPENTERS HALL, 18, AUSTIN FRIARS, LONDON, E.C.2.
(By kind permission of the Worshipful Company of Carpenters.)

CONTRACT MANAGERS, CLERKS OF WORKS, AGENTS and STAFF FOREMEN are invited to apply for membership of this Institution, which has for over a century granted pensions to members and their widows, and so assist to maintain the status and promote the interests of supervisory staff in the Industry. Architects, Builders and Civil Engineers requiring efficient staff as above are requested to contact the

General Secretary,
J. W. TILLER, L.I.O.B.,
11j, Marlborough Hill, St. John's Wood,
London, N.W.8.
Phone: PRImrose 7336.

ARCHITECTURAL ASSISTANT, 37, with 15 years' experience industrial, domestic, farm, conversion work, site surveying and supervision, seeks active post with established contractor in country area. West country, Kent or Sussex preferred. Car owner/driver, clean licence. Position requiring responsibility and initiative sought.—Box 1506, "The Builder."

BUILDER'S QUANTITY SURVEYOR/CONTRACTS MANAGER (29), Member I.Q.S., Seeks position with Contractor in London or Surrey. Experienced all types of work, contract or development.—Box 1524, "The Builder."

ROOFING SURVEYOR (28), experienced all forms aluminium and asbestos sheeting, insulation lining and suspended ceilings, enquiry to final account, seeks position where initiative and drive are required and where possibilities of advancement are good. Not afraid of problems or hard work. Resident Surrey. —Box 1507, "The Builder."

BUILDING SURVEYOR seeks position Aug./Sept. Essex area. 13 years' experience, nine on large civil contracts. Prefers quantities, estimating, house design, alterations, etc. Car owner. Salary £900.—Box 1508, "The Builder."

SURVEYOR/ESTIMATOR (34), experienced alterations, repairs and small contracts. Requires responsible position with small/medium Builder South East or Central London area.—Box 1509, "The Builder."

SENIOR SURVEYOR seeks change to same or Contract Management, any district. 25 years' varied experience Building and Civil Engineering. Planning, staff control, administration.—Box 1525, "The Builder."

YOUNG MAN, 23, studying Final Year H.N.C., L.I.O.B., 3½ years' experience London Contractors. Requires Junior Surveyor's position. Sussex area. Exempt National Service.—Box 1607, "The Builder."

SENIOR ESTIMATOR AND QUANTITY SURVEYOR Requires post. Age 55. 35 years' experience in the building and allied trades. Salary £875 0s 0d.—Box 1526, "The Builder."

CONTRACTS MANAGER/BUILDING SUPERVISOR. Experienced and energetic CONTRACTS MANAGER, age 36, at present employed in North England, desires a similar post in Birmingham or Midlands. Excellent knowledge of modern plant, methods and management techniques. Would accept position as Site Agent where opportunities for advancement to Senior Managerial level exist. Present salary £1,300 p.a. Excellent references; clean licence. Free 1st July.—Box 1527, "The Builder."

OUTSIDE MANAGER wishes to obtain position in or around Portsmouth area. Fully conversant all trades, wide experience of all types of contracts and site organisation.—Box 1528, "The Builder."

EXECUTIVE position Required, South Coast. Specialist Contract planning and organisation, ordering, quantity and field surveying. Contracts up to £2 millions. Age 40.—Box 1529, "The Builder."

BUYER, aged 38, seeks position. Wide experience all branches of purchasing, including negotiating sub-contracts for building contractors and civil engineers. Good knowledge of plant, stores, accounts and office administration.—Box 1530, "The Builder."

ACCOUNTANT/SECRETARY, thoroughly experienced Building and Civil Engineering Industry. Accounts to Balance Sheet, Budgets, Financial Statistics, Claims, etc.—Box 1531, "The Builder."

CHARTERED Secretary with many years' successful civil engineering, building administration and executive experience seeks responsible position with reputable company. Age 44. Specialising in costing, management accounting, company secretarial duties, legal and contract matters, administration and staff control. Used to negotiating at top level and accepting full responsibility.—Box 1625, "The Builder."

CHIEF Clerk seeks change with promotion. Experienced in costing, wages, accounts, cost variations, and all office administration. Own car. Areas London and southern counties.—Reply Box 1626, "The Builder."

PERSONAL ASSISTANT to Managing Director of B. and C.E. Contractors available to take full measure of responsibility co-ordinating departments, planning and contract organisation.—Box 1517, "The Builder."

SUPERVISOR, alterations, jobbing maintenance, small contracts, 25 years in charge. Driver, C. and J. by trade. Age 49. Desires change. London and southern area.—Box 1627, "The Builder."

GENERAL Foreman seeks post, all types concrete or brick. C. and J. Set out or finishing. Use Dumpy, subs or bonus work.—Box 1628, "The Builder."

GENERAL Foreman or Site Agent, 52, seeks post. Bridges or heavy R.C. preferred. 30 years' experience supervising large engineering and building works at home and abroad.—Box 1629, "The Builder."

ACTIVE, able SUPERVISOR, aged 42 years, with a whole life-time of experience in the Building Industry requires a change. Specialist in developing Housing Estates and an extremely able negotiator for land and property purchasing. Present situation 13 years. Clean Driving Licence.—Box 1532, "The Builder."

GENERAL FOREMAN (Building) seeks appointment overseas, commence late August. Previous overseas experience.—Phone Wiveliscombe 577. Challick Cottage, Maundown, Wiveliscombe, Somerset.

GENERAL FOREMAN, 54, C. & J., 16 years full control most types of contracts, including housing schemes.—Box 1533, "The Builder."

SUPERVISOR, Mastic Asphalt Felt Roofing, etc., desires change. Conversant all branches of industry. 22 years' practical and administrative experience. Hold clean current driving licence.—Box 1534, "The Builder."

GENERAL FOREMAN/AGENT, 55, wide experience large and medium contracts. Competent in all aspects. C. & J. London area preferred. Residing Harrow, Middlesex.—Box 1535, "The Builder."

LAND, PREMISES, ETC.

GREENWICH.—Industrial Site—40,000 sq. ft. TO BE LET ON A TEMPORARY TENANCY up to 3 years. Rent £1,000 p.a.—Details of LEOPOLD FARMER & SONS, Factory Agents, 46 Gresham-street, E.C.2. Tel.: MON 3422.

WANTED.—BUILDING SITE with plans approved or prepared to negotiate to purchase on completion of building. Will help with finance. Agents retained if necessary or commission paid for introduction.—Details to A.G., c/o Queens Hotel, Church-road, Upper Norwood, S.E./19.

WOULD YOU DEVELOP if you could find a site?—If so ring HURstway 3623, or write SITEFINDERS, 21 Stuart-avenue, Hayes, Bromley, Kent.

LAND SITE available, about 7½ acres, 35 miles North of London. Suitable for Contractors' Yard and stores. Extensive sheds, office building and private railway siding on site.—Apply Box 1584, "The Builder."

PRECAST CONCRETE WORKS Required on long lease, or freehold, would be purchased; alternatively suitable site, preferably Home Counties, area about 4 acres.—Reply Box 1585, "The Builder."

BUSINESSES

BUILDER, Contractor and Decorator, shortly retiring, offers established profit-making business for sale as going concern. S.E. coast town.—Box 1622, "The Builder."

PLASTERING and Building business, Devon. Excellent prospects for right person. £2,500 inclusive premises and all stock.—Apply Box 1536, "The Builder."

Important Auction Sale of Freehold Industrial Properties.

CHAMBERLAIN & WILLOWS

will sell by auction at the City Auction Hall, 58 Coleman Street, London, E.C.2, at 4 p.m. on Thursday, 25th June, 1959

Modern Two Floored Factory, Poplar	26,000 sq. ft.
Central London Warehouse, Holborn	28,000 sq. ft.
Main Road Factory, Southwark	26,000 sq. ft.
Engineering Works (plus large yards), Walworth	11,900 sq. ft.
Two Floored Factory, Camberwell	10,750 sq. ft.
Two Floored Factory, Barnes	13,900 sq. ft.

also commercial sites in East London.

Full details from the Auctioneers, **23 Moorgate, E.C.2.** (Tel.: MET 8001—10 lines)

CITY OF CAMBRIDGE

AT THE JUNCTION OF HISTON ROAD AND WINDSOR ROAD
TO THE NORTH OF THE CITY
SITE FOR MAJOR
RESIDENTIAL DEVELOPMENT
of approximately

40 ACRES

1,300 ft. of valuable road frontage to Histon Road.
All main Services.
Zoned for Residential Development.
FOR SALE BY AUCTION IN ONE LOT
by
Messrs. J. CARTER JONAS AND SONS
at the LION HOTEL, CAMBRIDGE
on MONDAY, 29th JUNE, 1959, at 3.30 p.m.
Further particulars upon application, from:
MESSRS. J. CARTER JONAS AND SONS,
27/28 MARKET HILL, CAMBRIDGE.
(Telephone: 3428/9)

HATHERNWARE FAIENCE IN SOUTHAMPTON!

HATHERNWARE GREEN STONE-FACED FAIENCE PANELS were specified for the new EDWIN JONES DEPARTMENT STORE SOUTHAMPTON.

OTHER NOTABLE USERS OF FAIENCE INCLUDE:—

Bucklersbury House, Cannon Street, London, E.C.4 (Campbell Jones & Sons, Architects).

John Lewis Rebuilding, Oxford Street, London. (Slater and Uren, Architects.)

A. Sanderson & Sons Premises, Berners Street, London, W.1. (Slater and Uren, Architects.)

Goldsmiths Site, Fetter Lane, London, E.C.4. C. Edmund Wilford & Son, Architects.)

Bush House, Broad Street, Birmingham for Birmingham Corporation. (Harry W. Weedon, F.R.I.B.A. & Partners, Architects.)

Boots Ltd., Research Centre, Pennyfoot Street, Nottingham. (C. St. C. Oakes Esq., Chief Architect, Messrs. Boots Ltd.)

British Home Stores Ltd., Middlesbrough. (G. W. Clarke Esq., Chief Architect, British Home Stores Ltd.)

Send for Brochure to HATHERNWARE LTD., Dept. BL. LOUGHBOROUGH · LEICS. · Telephone: HATHERN 273.

dm HL 82

INDEX TO "THE BUILDER" ADVERTISERS AND GUIDE TO BUYERS

Abelson & Co. (Engineers), Ld. 101
Adams, Robert (Victor), Ld. 88
African Building Board Corporation 79
AIDU Equipment Co., Ld. 108
Ajax Architectural Products Ld. 90
Allan Blazan, Ld. 1055
Aldridge 56
Allied Ironfounders Ld. 42-71
Anderson, C. F. & Son, Ld. 99
Ashe Laboratories, Ld. 65
Associated Asphalt Co., Ld. 1
Associated Building Construction Developments (Raynes Park), Ld. 12
Associated Building Products, Ld. 65
Associated Lead Manufacturers, Ld. 67
Astley, The Industrial Trust, Ld. 97
Austins (East Mars), Ld. 21

Bakelite, Ld. 9
Barford (Agricultural), Ld. 24
Batley, Ernest, Ld. 94
Batty, Frank, & Smith, Ld. 112
Bennett, S., & Son (Wood Floorings), Ld. 105
Bilston Foundries, Ld. 61
Blagg & Johnson, Ld. 92
Blaw Knox, Ld. 31
Bostwick Gate & Shutter Co. Ld. 1
Britannia Iron & Steel Works, Ld. 1056
British Equipment Co., Ld. —
British Geon, Ld. 4
British Hoist & Crane Co. 23-102
British Visqueen, Ld. 17
Broughton Moor Green Slate Quarries, Ld. 76
Brown, N. C., Ld. 108
Brunnings (Holborn), Ld. 102
Building Plant Exhibition. 96
Byrd, A. A., & Co., Ld. 52

Contracts 75
Calders, Ld. 1
Caswell Cranes & Erection, Ld. 103
Cayless Bros. 101
Celcon, Ld. 51
Cementation Co., Ld. *Back Cover*
Cement Marketing, The Co., Ld. 100
Chalmer, E. 94
Chamberlain Plant, Ld. 41
Clancy, J. J., & Co. 105
Clark & Fenn, Ld. 56
Clark, Hunt, & Co., Ld. 56
Clark, James, & Eaton, Ld. 14
Clifton, I., & Sons, Ld. 101
Cole, E. R., Ld. 97
Colt Ventilation, Ld. 40
Colt, W. H. (London), Ld. 1
Conder Engineering Co., Ld. 13
Contractors Services, Ld. 104
Copperad, Ld. 72
Coseley Buildings, Ld. 77
Cox, H., & Sons (Plant Hire), Ld. 103

Dandridge's of Greenwich 103
Davies, Alan R., Ld. 52
Decorative Painting Contractors, Ld. 1
Evode, Ld. 5
Expandite, Ld. 105

Falkus Bros., Ld. 62
FEB (Great Britain), Ld. 7
Federation of Master Builders 1058
Felts & Damp-courses, Ld. 94
Freeman, Joseph, Sons & Co., Ld. 9

Galbraith Brothers, Ld. 1058
General Asphalte Co., Ld. *Cover*
Greenwich Pump & Plant Co., Ld. 103
Greenwood's & Airvac Ventilating Co., Ld. 45
Guild of Surveyors 97

Imperial Chemical Industries, Ld. 66

James Joinery 105
Johnson, C. H. (Machinery), Ld. 51

Kay & Co. (Engineers), Ld. 91
Kerner-Greenwood & Co., Ld. 53
King, J. A., & Co., Ld. 12
Kingsland Co. (1897), Ld. 13

L & P Developments, Ld. 96
Lafarge Aluminous Cement Co., Ld. 19
Langton Secretarial Services Ld. 100
Latex Upholstery, Ld. 88

Longley, James, & Co. 44
Lowton Metals, Ld. ..... —

Macandrews & Forbes, Ld. 94
Macnamara, John, & Co., Ld. 101-102-103
Magnet Joinery Co., Ld. 58
Marley Concrete, Ld. 38-39-101
Marley Tile Co. ..... 92-*Inside Back Cover*
Maxwell, Andrew 41
Mellor Bromley (Air Conditioning), Ld. 37
Merthyrware Tiles, Ld. 25
Midland Woodworking Co., Ld. 96
Minnesota Mining & Manufacturing Co., Ld. 63

Pegson, Ld. 37
Penrose Lifts, Ld. 1
Phillip Flooring, Ld. 27
Phillips, J. W. & C. J., Ld. 52
Plantire, Ld. 102
Plunkett, A. J., & Co., Ld. 97
Podmore Works 101-103
Portasilo, Ld. 43
Potter Rax, Ld. 49

Quickset Water Sealers, Ld. 1

Rawlplug Co., Ld. 69
R. C. (Steel), Ld. 105
Runnymede Rubber Co., Ld. 70

Sage, Fredk., & Co., Ld. 57
Saville (Tractors), Ld. 54
Seaboard Lumber Sales Co., Ld. 28
Sealocrete Products, Ld. 16
Sherbourne Engineering Ld. 75
Short, G. & H. 110
Site Survey Company 110
Snapdek, Ld. 74
Sommerfelds, Ld. 36
Standard Range & Foundry Co., Ld. 2
Steel-Crete, Ld. ..... —
Steel Fabricators (Cardiff), Ld. 85
Stephens and Carter, Ld. 18-104
Stevens & Adams Ld. 1058
Steventon, John, & Sons Ld. 112
Swedish Ferstorp 47
Symes (Plant), Ld. 104

Taylor, J. (Syston), Ld. 102
Tentest 102
Thames Plywood Manufacturers 32
Thorn, J., & Sons, Ld. 92
Tibbetts 102
Tower Cranes ..... —
Tradex Meter Co., Ld. 103
Travis & Arnold, Ld. 6
Tretol, Ld. 3
Tunnel Portland Cement 78

Unitone Acoustic Tiles, Ld. 1057

Wachal Flooring Co. 102
Waico (Sales), Ld. 84
Well Fire & Foundry Co., Ld. 33
Wild, M. B. Co., Ld. 54
Willis, S. A. 102
Wottons (Croydon), Ld. 1

Denton Edwards Paints, Ld. 90
Doe, Ernest, & Sons, Ld. 13
Dorman Long Co., Ld. 46
Douglas Hire Co., Ld. 102
D.J.F. Telephones, Ld. 103
Dunning, A. J., & Sons (Weyhill), Ld. 56
Dussek Bitumen & Taroleum, Ld. 80

Edmonds 1
Elliott Domestic Appliances, Ld. 98
Ellis School of Building 105
Elwell, John, Ld. 54
Essex Steel Scaffolding Co., Ld. 1058

Hall, J. & E., Ld. 26
Hammill Brick Co., Ld. 1
Hathernware, Ld. 111
Harris & Bailey, Ld. 101
Haskins 88
Haywards, Ld. 95
Helical Bar & Engineering Co., Ld. 31
Hilger & Watts, Ld. 60
Hill, H. C., Ld. 100-103
Holoplast, Ld. 50
Hook's Joinery Works, Ld. 105
Houseden, G. & H. 104
Hope, Henry, & Sons, Ld. 64
Howard & Co. 94

Ibstock Brick & Tile Co., Ld. 15

Lead Development Association 87
Lever, James, & Sons, Ld. 103
Lillington, G., & Co., Ld. 32-34
Liner Concrete Machinery Co., Ld. 11
Lloyds Permanent Building Society 98
Lockwood, R. W. 105
London & Midland Steel Scaffolding Co., Ld. 29
London Ass. of Builders' Foremen & Clerks of Works 106
London Brick Co., Ld. 30
London Stone Cleaning & Restoration Co., Ld. 48

M.K. Electric, Ld. 59
Moore's Plant, Ld. 104
Morgan Hoists 106
Mullen & Lumsden, Ld. 60

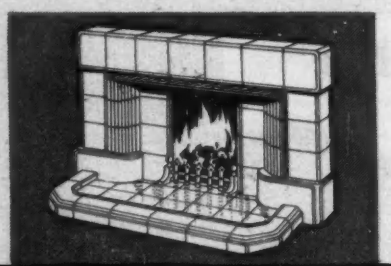
National Coal Board 89
National Federation of Clay Industries 33
National Salt Glazed Pipe Manufacturers Assoc. 66
Negus, W. & M., Ld. 1058
Newman & Watson, Ld. 1
Nicoll, Dawson & Humphries, Ld. 104
Northern Aluminium Co., Ld. 80

Oldacres & Co., Ld. 108

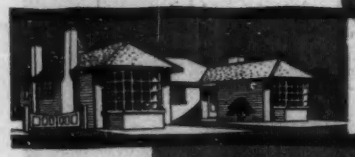
FRANK BATTY & SMITH LTD

BUILDING & CIVIL ENGINEERING CONTRACTORS

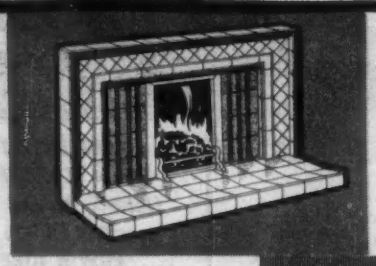
LONDON, W.2 PAD 5148, 3088-9 | SOUTH WALES CARDIFF 22361/2 | ISLE OF WIGHT RYDE 3322/3.



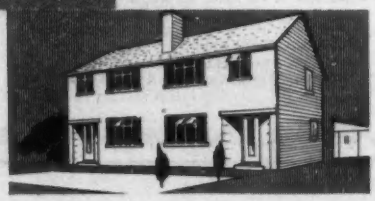
For every home there's a



ROYAL VENTON fireplace



Royal Venton fireplaces come in splendid variety to suit every size and every style of home. They're superbly practical and durable . . . a product of brilliant craftsmanship combining good design and the finest materials. Every architect, every builder should have a copy of the Royal Venton Catalogue and price list.



John Steventon & Sons Ltd.
Burslem, Stoke-on-Trent.
Tel: Stoke 84261-2

ROYAL VENTON PORCELAIN SANITARY WARE

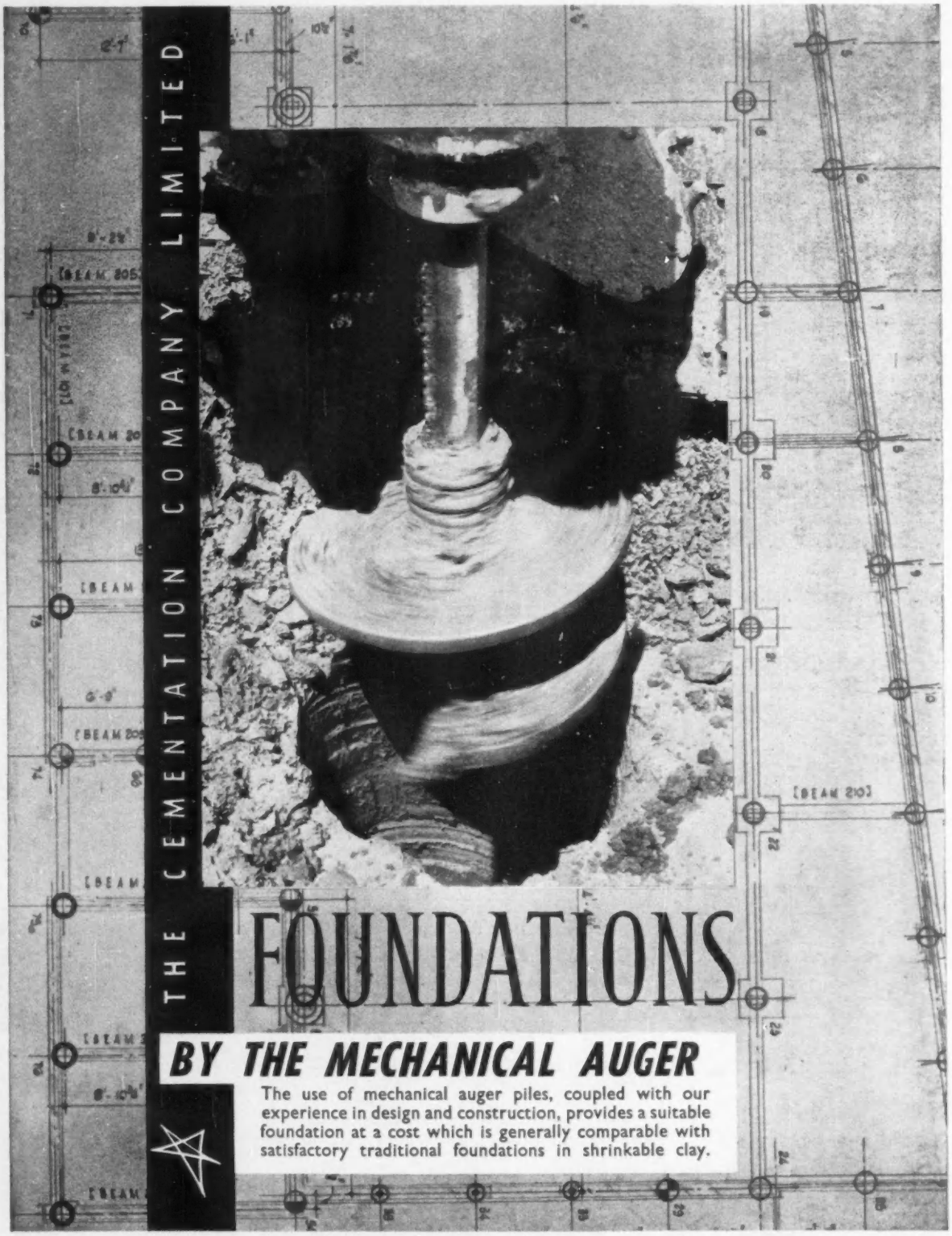
AGELESS

MARLEY VINYL rainwater goods

Complete installations can now be achieved with these revolutionary rainwater goods which combine all the unique advantages of tough, non-ageing vinyl with the success of a well-proven system. Marley vinyl rainwater goods do not deteriorate or wear out in industrial or coastal atmospheres. They are quick and easy to fix, neat in appearance and need neither initial painting nor maintenance. They represent the most economic value in rainwater goods today. 4″ gutters : 2½″ down pipe and all standard fittings are immediately available—gutters and pipes in standard 6 ft. lengths. (4½″ and 5″ gutters and 3″ pipe will be available shortly.) Price list and fixing instructions available on request.

Obtainable NOW from Builders' Merchants.

MARLEY · SEVENOAKS · Sevenoaks 55255 London Showrooms: 251 Tottenham Court Rd. W.1.



The technical resources of a modern research laboratory and the wide experience of the Cementation Company as specialist contractors is available for the design and construction of all forms of foundation and underpinning work. Please write for brochure.

THE CEMENTATION COMPANY LIMITED

HEAD OFFICE: 20 ALBERT EMBANKMENT, LONDON, S.E.11 PHONE: RELIANCE 7654

BENTLEY WORKS DONCASTER PHONE: DONCASTER 54175-54136

London, England: Published by THE BUILDER LIMITED, at the Builder House, Catherine-st., Aldwych, W.C.2, and Printed by ST. CLEMENTS PRESS LTD., Portugal-st., Kingsway, London, W.C.2. June 12, 1959. REGISTERED AT THE GENERAL POST OFFICE AS A NEWSPAPER.